# WEST Search History

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DATE: Wednesday, August 18, 2004

| Hide? | Set Name | Query | Hit Count |
|---|---|---|---|
| | | *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR* | |
| ☐ | L64 | 20010101 | 22 |
| ☐ | L63 | L62 and (crypto$6 or encrypt$7 or encod$7 or enciph$8) | 50 |
| ☐ | L62 | wireless adj bridge$1 | 117 |
| ☐ | L61 | wireless near3 interface near3 cryptographic$4 | 2 |
| ☐ | L60 | "wireless network interface" with cryptographic$4 | 0 |
| ☐ | L59 | L58 | 0 |
| | | *DB=USPT; PLUR=YES; OP=OR* | |
| ☐ | L58 | "wireless network interface" with cryptographic$4 | 0 |
| | | *DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR* | |
| ☐ | L57 | 20010101 | 5 |
| ☐ | L56 | "network card" and "cryptographic processor" | 17 |
| ☐ | L55 | "network card" same "cryptographic processor" | 0 |
| ☐ | L54 | "network card" with "cryptographic processor" | 0 |
| ☐ | L53 | l47 and "cryptographic processor" | 0 |
| ☐ | L52 | 20010101 | 6 |
| ☐ | L51 | 200101 | 0 |
| ☐ | L50 | L48 and l47 | 60 |
| ☐ | L49 | L48 with l47 | 0 |
| ☐ | L48 | (crypto$7 or encipher$8 or encod$8 or encrypt$7) | 535659 |
| ☐ | L47 | "wireless network interface card" or wnic | 355 |
| ☐ | L46 | l42 | 21 |
| | | *DB=USPT; PLUR=YES; OP=OR* | |
| ☐ | L45 | L44 and l43 | 8 |
| ☐ | L44 | (crypto$7 or encrypt$6 or enciph$7 or encod$6 or decrypt$7 or deciph$8 or decod$7) | 294434 |
| ☐ | L43 | 20010101 | 15 |
| ☐ | L42 | "wireless network interface card" | 21 |
| ☐ | L41 | L40 and wireless adj network | 10 |
| ☐ | L40 | hall.in. | 9934 |
| ☐ | L39 | l36 and wireless near3 transceiver | 2 |
| | L38 | L37 and "james bergman" | 0 |

| | | | |
|---|---|---|---|
| ☐ | | | |
| ☐ | L37 | L36 and network | 111 |
| ☐ | L36 | bergman.in. | 1149 |
| ☐ | L35 | dellmo.in. | 0 |
| ☐ | L34 | L33 and wireless | 2 |
| ☐ | L33 | L32 and cryptographic | 12 |
| ☐ | L32 | media adj access adj controller | 894 |
| ☐ | L31 | media adj access adj controll$4 | 904 |
| ☐ | L30 | 20010101 | 8 |
| ☐ | L29 | l28 and (crypto$7 or encrypt$6 or enciph$7 or encod$6 or decrypt$7 or deciph$8 or decod$7) | 10 |
| ☐ | L28 | wireless adj network adj interface adj card | 21 |
| ☐ | L27 | L26 and PCMCIA | 8 |
| ☐ | L26 | L25 and (crypto$7 or encrypt$6 or enciph$7 or encod$6 or decrypt$7 or deciph$8 or decod$7) | 43 |
| ☐ | L25 | L24 and wireless | 62 |
| ☐ | L24 | (5539824 6694430 5425103 5619576 6304973 6088585 5787177 5974149 6189104 5070528 5235644 5594869 5757924 5920640 6069970 6151679 6240513 5748734 5982895 6073237 6169802 6199086 5636216 5231662 5764765 6002772 6189032 6397336 5628055 5844400 5999140 5253294 5499296 5684948 5687235 5796833 5818936 5901227 5956407 5958051 5974151 6021491 6035398 6157721 6160891 6161180 6230266 6243812 6292569 6367013).pn. (5469332 5481611 5513181 5598476 5619575 5649014 5952963 5978481 6233337 6266411 6266717 6332133 6377687 6418224 6430170 6766453 6778779 6098330 5664016 6006100 5007089 5276680 5347545 5386438 5467341 5490175 5509027 5513210 5564055 5574979 5583866 5657317 5694417 5696903 5706428 5712870 5745699 5745884 5768531 5867131 5898690 5949776 5952970 5956408 5982807 5987057 6014087 6035324 6041042).pn. | 99 |
| ☐ | L23 | L21 and wireless | 21 |
| ☐ | L22 | L21 with wireless | 0 |
| ☐ | L21 | cryptographic adj processor | 141 |
| ☐ | L20 | wireless with cryptographic adj processor | 0 |
| ☐ | L19 | L17 and encrypt$8 | 5 |
| ☐ | L18 | L17 and crypto$7 | 0 |
| ☐ | L17 | 20010101 | 19 |
| ☐ | L16 | 4534061.pn. | 1 |
| ☐ | L15 | L14 and wireless near3 lan | 28 |
| ☐ | L14 | "baseband processor" | 514 |
| ☐ | L13 | "wireless lan housing" | 1 |
| ☐ | L12 | l11 and security | 14 |

| | | | |
|---|---|---|---:|
| ☐ | L11 | 20010101 | 21 |
| ☐ | L10 | "wireless lan transceiver" | 26 |
| ☐ | L9 | L8 and crypto$6 | 6 |
| ☐ | L8 | wireless near3 LAN near3 (device or housing) | 186 |
| ☐ | L7 | wireless near3 housing near4 (pcmcia near3 connector) | 0 |

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

| | | | |
|---|---|---|---:|
| ☐ | L6 | 20010101 | 20 |
| ☐ | L5 | L4 and battery | 65 |
| ☐ | L4 | L3 and tamper$5 with resistant | 127 |
| ☐ | L3 | L2 and security | 5574 |
| ☐ | L2 | wireless with ("local area network" or LAN) | 20922 |
| ☐ | L1 | wireless and ("local area network" or LAN) | 39637 |

END OF SEARCH HISTORY

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Jul 6, 10:24 PM

# Harris wins $23 million NSA contract

*BY BRIAN MONROE*
*FLORIDA TODAY*

MELBOURNE -- Harris Corp. has won a potential $23 million contract from the National Security Agency for its SecNet 11 secure wireless network cards that can send encrypted data, voice or video transmissions.

The Melbourne-based communications-electronics manufacturer, which employs 6,100 people in Brevard County and 10,000 companywide, has the only National Security Agency-certified secure wireless card that can transmit at a data rate of 11 megabits per second. That is faster than typical high-speed cable connections of 10 megabits per second. A dial-up modem has only 0.056 megabits (or 56 kilobits) per second.

The contract has an initial $1.2 million order. In the award, Harris will supply personal computer cards, wireless bridges and auxiliary equipment such as cables to U.S. government departments or agencies and their contractors, NATO, and foreign military customers with valid communications security accounts through the National Security Agency.

Experts say, while the contract amount isn't huge by Harris standards -- the company has landed deals in the billions of dollars -- it is significant because it shows Harris is trying to strengthen its ties to other government sectors not tied to defense.

"Harris is trying to diversify more of its government work," said Lawrence Harris, a telecommunications-equipment analyst for Oppenheimer & Co., in New York. "They become a little less dependent on the Department of Defense."

That is important, the analyst said, because the company realizes the current rise in defense spending eventually will begin to wane, and it will have to rely on its currently struggling commercial divisions and other government-related contracts.

Lawrence Harris said many networks "do have issues relative to security. The government doesn't want someone next door tapping into what should be a secure network. As a consequence, I think Harris could get additional contracts with the government in that area."

To land a contract with the National Security Agency also "illustrates the fact that Harris technology is highly regarded by some of the top intelligence agencies in the country. Roughly 40 percent of the sales within the company's government communications division is of a classified nature."

Harris officials also think thestrategy is cost-effective.

By embedding an encryption module into the network access card, the need for externally wired equipment is eliminated and users have the ability to quickly assemble a network and maintain "wireless communications-on-the-move," anywhere in the world, they said.

"This is a very important contract for Harris in that it expands the opportunities for SecNet 11 sales to U.S. domestic agencies and also opens the door to foreign military sales," said Russ Haney, president, of the national programs business unit at Harris' Government Communications Systems Division.

Contact Monroe at 242-3655 or bmonroe@flatoday.net

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| Set | Items | Description |
|-----|-------|-------------|
| S1 | 16144 | MAC OR (MEDIA? ? OR MEDIUM? ? OR MEDIASPECIFIC OR MEDIUMSPECIFIC)(1W)ACCESS??? ?(1W)(CONTROL??? ? OR CONTROLL??? ?) |
| S2 | 27800 | CRYPTO OR CRYPTOGRAPH? OR CRYPTOSYSTEM? OR ENCRYPT? OR ENCIPHER? OR ENCYPHER? |
| S3 | 16894 | DECRYPT? OR UNENCRYPT? OR UNENCIPHER? OR UNENCYPHER? OR DECIPHER? OR DECYPHER? OR UNCRYPT? OR UNCYPHER? OR UNCIPHER? |
| S4 | 397725 | SECRET? OR SECURE? ? OR SECURING OR SECURITY? |
| S5 | 263394 | WIRELESS? OR WIRE()LESS OR MOBILE OR LAPTOP? ? OR LAP()TOP? ? OR TABLET |
| S6 | 83898 | PORTAB? OR NOTEBOOK OR NOTE()BOOK OR NOTEPAD OR THINKPAD OR (NOTE OR THINK)()PAD |
| S7 | 56961 | IPAQ OR PDD OR PDDS OR HPC OR HPCS OR WINCE OR VISOR OR PDA OR PDAS OR HANDSPRING OR PIM OR PIMS OR PALMPILOT OR PALMTOP OR PALM OR NEWTON OR BLACKBERRY |
| S8 | 3105 | (PEN OR STYLUS OR POCKET)(2W)(COMPUTER? ? OR DEVICE?) |
| S9 | 16655 | POCKETPC OR PERSONAL()INFORMATION()MANAGER? OR PERSONAL()(DIGITAL OR DATA)()(ASSISTANT? ? OR ORGANI?ER? ?) OR CELLPHONE? OR MOBILEPHONE? OR SCREENPHONE? |
| S10 | 53665 | (RADIO OR SCREEN OR VIEW? OR SMART OR CELL OR CELLULAR OR MOBILE OR WIRELESS? OR WIRE()LESS?? ? OR FLIP OR DIGITAL)(1W)(TELEPHONE? OR PHONE? ? OR HANDSET? ? OR HAND()SET? ?) |
| S11 | 11138 | RADIOPAGER? OR PAGER? OR PAGING(1W)(DEVICE? OR UNIT? ? OR APPARATUS? OR APP?? ? OR TERMINAL? OR APPLIANCE?) |
| S12 | 4649 | RADIOPHONE? OR VIEWPHONE? OR SMARTPHONE? OR RADIOTELEPHONE? |
| S13 | 55 | PERSONAL()DISPLAY?()(DEVICE? OR UNIT?? OR APPARATUS? OR APP?? ? OR TERMINAL? OR APPLIANCE? OR CLIENT? ? OR PC OR PCS OR COMPUTER? ?) |
| S14 | 436766 | SELFCONTAINED OR SELF()CONTAINED OR MOBILE OR PORTABLE OR WIRELESS? OR WIRE()LESS?? ? OR HANDHELD OR HAND()HELD OR POCKET OR IR OR INFRARED |
| S15 | 82666 | S14(2W)(CLIENT? ? OR PC OR PCS OR COMPUTER? ? OR DEVICE? OR UNIT? ? OR APPARATUS?? OR APP?? ? OR ORGANI?ER? OR TERMINAL? OR APPLIANCE?) |
| S16 | 2563 | (VIDEO OR PICTURE OR MESSAGE OR CAMERA)(1W)(TELEPHONE? OR PHONE? ? OR HANDSET? ? OR HAND()SET? ?) |
| S17 | 5788 | PALMSIZE? OR PALMHELD OR HANDY? ? OR FLIPPHONE? OR VIDEOPHONE? OR PICTUREPHONE? |
| S18 | 773 | S1(20N)S2:S3 |
| S19 | 1720 | S1(20N)S5 |
| S20 | 42 | S18(25N)S19 |
| S21 | 1194 | IC='H04K-001' |
| S22 | 6633 | IC='H04L-009' |
| S23 | 15 | S18(20N)(S6:S13 OR S15:S17) |
| S24 | 6 | S20 AND S21:S22 |
| S25 | 19 | S23:S24 |
| S26 | 19 | IDPAT (sorted in duplicate/non-duplicate order) |
| S27 | 19 | IDPAT (primary/non-duplicate records only) |
| S28 | 23 | S20 NOT (S27 OR MESSAG?(1W)AUTHENTIC?(1W)CODE? ?) |
| S29 | 23 | IDPAT (sorted in duplicate/non-duplicate order) |
| S30 | 23 | IDPAT (primary/non-duplicate records only) |

01389675
**Key management methods for wireless lans**
**Schlusselverwaltungsverfahren fur drahtlose lokale Netze**
**Procedes de gestion de cle pour reseaux locaux sans fil**
PATENT ASSIGNEE:
  Nokia Inc., (3175140), 6000 Connection Drive, Irving, TX 75039, (US),
    (Applicant designated States: all)
INVENTOR:
  Stenman, Jorma, Myllarintanhua 6 H 27, 00920 Helsinki, (FI)
  Salvela, Juha, Otakallio 1 C 28, 02150 Espoo, (FI)
  Hansen, Harri, Nokitontunkuja 1 E 34, 02200 Espoo, (FI)
LEGAL REPRESENTATIVE:
  Simmelvuo, Markku et al (82423), Papula Oy, Patent Agency Papula P.O. Box
    981, 00101 Helsinki, (FI)
PATENT (CC, No, Kind, Date):  EP 1178644  A2  020206 (Basic)
                              EP 1178644  A3  040204
APPLICATION (CC, No, Date):   EP 2001660026 010206;
PRIORITY (CC, No, Date): US 502567 000211
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04L-029/06; H04L-012/22; H04L-012/28

ABSTRACT EP 1178644 A2
    The security keys in the mobile terminals and access points of a
wireless local area network (WLAN) are created, utilized and managed for
a communication session between a mobile terminal and access point. Both
the WLAN link level security protection and IP security functions of the
network use the same Internet Key Exchange (IKE) key management protocol
and use certificates in the same certificate hierarchy. When the mobile
terminals associates with the network, it uses the IKE protocol with
private keys and certificates to generate WLAN link level keys with the
access point and provide mutual authentication.
ABSTRACT WORD COUNT: 98
NOTE:
  Figure number on first page: 3

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application:     020206 A2 Published application without search report
 Change:          040128 A2 International Patent Classification changed:
                           20031211
 Search Report:   040204 A3 Separate publication of the search report
 Change:          040324 A2 Legal representative(s) changed 20040205
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text  Language  Update    Word Count
      CLAIMS A  (English)  200206     377
      SPEC A    (English)  200206    3543
Total word count - document A       3920
Total word count - document B          0
Total word count - documents A + B  3920

...SPECIFICATION are used to protect transmitted data and network elements.
  These features include data and signaling **encryption** at the **MAC**
  layer, authentication of the **mobile   terminal** when it connects to the
  network, and the authentication of each data packet to assure...

01316353
**Switchless half-duplex transceiver front end**
**Schalterlose Eingangsschaltung fur einen Halbduplexsenderempfanger**
**Circuit d'entree sans commutateur pour un emetteur-recepteur semi-duplex**
PATENT ASSIGNEE:
 Nokia Inc., (3175140), 6000 Connection Drive, Irving, TX 75039, (US),
  (Applicant designated States: all)
INVENTOR:
 Posti, Jarkko, Kaitavedentie 1236, 34240 Kammenniemi, (FI)
 Vaananen, Paavo, Nosturinraitti 2 B 18, 33720 Tampere, (FI)
 Erva, Klaus, Opiskelijankatu 4 F 351, 33720 Tempere, (FI)
LEGAL REPRESENTATIVE:
 Johansson, Folke Anders (81687), Nokia Corporation, P.O. Box 226, 00045
  Nokia Group, (FI)
PATENT (CC, No, Kind, Date):  EP 1124337  A2  010816 (Basic)
                              EP 1124337  A3  021120
APPLICATION (CC, No, Date):   EP 2001660030 010212;
PRIORITY (CC, No, Date): US 501979 000211
DESIGNATED STATES: DE; FR; GB; NL
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04B-001/48; H04B-007/08; H04L-012/28;
 H04B-001/707

ABSTRACT EP 1124337 A2
    In a half-duplex transceiver used in mobile terminals such as cell
phones, hand-held cellular terminals and laptop computers that require
two antennas, switches used to select the antennas may be eliminated.
Instead a bias current is used to condition a PA and LNAs associated with
antennas to create the communication path. In a system with two antennas
for receiving and one PA for transmitting the front end is designed so
that it is possible to receive through either of the antennas or transmit
through one antenna without having switches in the signal paths to direct
the signal. During transmission the bias currents of the LNAs associated
with antennas are turned off and the input impedance of one LNA is such
that the output power of the PA is directed to an antenna. In a receiving
state only one of the LNAs is used and the PA bias is turned off. A
receive path for a selected antenna is chosen by turning on one of the
LNAs. The PA's impedance is such that if receiving through the selected
antenna the power is directed to the LNA input associated with it. The
same method is applied to in LNA outputs. A BT (Bluetooth) module may be
used in the system by providing access through a switch S1 to an antenna.
ABSTRACT WORD COUNT: 219
NOTE:
 Figure number on first page: 6

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application:    010816 A2 Published application without search report
 Search Report:  021120 A3 Separate publication of the search report
 Examination:    030716 A2 Date of request for examination: 20030520
 Examination:    030903 A2 Date of dispatch of the first examination
                 report: 20030718
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text  Language   Update   Word Count
      CLAIMS A  (English)  200133      611
       SPEC A   (English)  200133     5938

Total word count - document A          6549
Total word count - document B             0
Total word count - documents A + B     6549

...SPECIFICATION listen to the controlled data needed to manage the
    network. However, the other stations cannot **decrypt** the data portions
    of the packet. Power management is supported at the **MAC** level for those
    applications requiring mobility under battery operation. Provisions are
    made in the protocol for the **portable** stations to go to low power
    "sleep" mode during a time interval defined by the...


   **27/5,K/6      (Item 6 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
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01295378
**Method  for transmitting an encryption number in a communication system and
    a communication system**
**Verfahren    zur    Übertragung   einer   Verschlusselungszahl   in   einem
    Kommunikationssystem und ein Kommunikationssystem**
**Procede  pour  transmettre  un  numero  d'encryptage  dans  un  systeme  de
    communication et systeme de communication**
PATENT ASSIGNEE:
  Nokia Corporation, (2963881), Keilalahdentie 4, 02150 Espoo, (FI),
    (Proprietor designated states: all)
INVENTOR:
  Salokannel, Juha, Toikantie 6 B 13, 36240 Kangasala, (FI)
LEGAL REPRESENTATIVE:
  Pursiainen, Timo Pekka (81702), Tampereen Patenttitoimisto Oy,
    Hermiankatu 12B, 33720 Tampere, (FI)
PATENT (CC, No, Kind, Date):  EP 1111952  A2   010627 (Basic)
                              EP 1111952  A3   011205
                              EP 1111952  B1   040303
APPLICATION (CC, No, Date):   EP 2000660238 001221;
PRIORITY (CC, No, Date): FI 992769 991222
DESIGNATED STATES: DE; FR; GB; NL
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04Q-007/38
CITED PATENTS (EP B): WO /49827 A; US 5243653 A; US 5546464 A
CITED REFERENCES (EP B):
  YI CHENG ET AL: "Token based authentication for handover security" SECURE
    INFORMATION NETWORKS. COMMUNICATIONS AND MULTIMEDIA SECURITY, 20
    September 1999 (1999-09-20), pages 231-243, XP002169203 Leuven, Belgium
    ;

ABSTRACT EP 1111952 A2
    The invention relates to a method for transmitting an encryption number
    in a communication system (1) comprising mobile terminals (MT1(horizontal
    bar)MT4) and at least a first access point (AP1) and a second access
    point (AP2). The method comprises the steps of defining a set of
    encryption keys, selecting at each said access point (AP1, AP2) from said
    set of encryption keys one to be used at a time for encrypting
    information to be transmitted between said access point (AP1, AP2) and
    mobile terminal (MTI(horizontal bar)MT4), transmitting from the access
    point (AP1, AP2), at intervals, data about the encryption key selected at
    the time, setting up a data transmission connection between a mobile
    terminal (MT1(horizontal bar)MT4) and the first access point (AP1) for
    the transmission of information, and performing a handover, whereby a
    data transmission connection is set up between the second access point

(AP2) and the mobile terminal (MT1(horizontal bar)MT4). In the method, a handover is performed, wherein a data transmission connection is set up between the second access point (AP2) and the mobile terminal (MT1(horizontal bar)MT4). In the method, in connection with the handover, information is also transmitted to the mobile terminal (MT1(horizontal bar)MT4) about the encryption key selected at the second access point (AP2).

ABSTRACT WORD COUNT: 207
NOTE:
    Figure number on first page: 5

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application:       010627 A2 Published application without search report
 Search Report:     011205 A3 Separate publication of the search report
 Examination:       020717 A2 Date of request for examination: 20020510
 Examination:       020814 A2 Date of dispatch of the first examination
                              report: 20020628
 Change:            030813 A2 Title of invention (French) changed: 20030627
 Grant:             040303 B1 Granted patent
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language    Update     Word Count
      CLAIMS A   (English)   200126⁊    1139
      CLAIMS B   (English)   200410      967
      CLAIMS B   (German)    200410      918
      CLAIMS B   (French)    200410     1089
      SPEC A     (English)   200126     5741
      SPEC B     (English)   200410     6091
Total word count - document A          6881
Total word count - document B          9065
Total word count - documents A + B    15946

...SPECIFICATION the lowermost layer, which takes care of using the radio channel in communication between the **mobile terminal** MT1 and the access point AP1, such as **encryption** and channel allocation in the transmission and reception of packets. This description deals primarily with data frames FR of the **MAC** layer. It is obvious that **encryption** operations can also be performed in connection with the other protocol layers, but this is...

...ST, the encryption sequence counter SC is preferably set to indicate the start of the **encryption** table ST.
    In the BCCH field of certain **MAC** frames, the access point AP1 transmits information to all **mobile terminals** connected with the access point AP1 in question (broadcast frame) or to some of them...

...the mobile terminal MT1 in question. In the sleep mode, the radio part of the **mobile terminal** MT1 is set in a power saving mode or turned off. The **encryption** sequence counter SC can, however, be updated, because the **mobile terminal** MT1 is aware of the number of **MAC** frames during which it is in the sleep mode.
    **Encryption** in a communication system according to a preferred embodiment of the invention is presented in...

...SPECIFICATION the lowermost layer, which takes care of using the radio channel in communication between the **mobile terminal** MT1 and the access point AP1, such as **encryption** and channel allocation in the transmission and reception of packets. This description deals primarily with data frames FR of the **MAC** layer. It is obvious that **encryption** operations can also be performed in connection with the other protocol

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...the mobile terminal MT1 in question. In the sleep mode, the radio part
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because the **mobile terminal** MT1 is aware of the number of **MAC**
frames during which it is in the sleep mode.
    **Encryption** in a communication system according to a preferred
embodiment of the invention is presented in...


**27/5,K/11      (Item 11 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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01066458      **Image available**
**SECURE WIRELESS LOCAL OR METROPOLITAN AREA NETWORK AND RELATED METHODS**
**RESEAU LOCAL OU METROPOLITAIN SANS FIL SECURISE ET PROCEDES S'Y RAPPORTANT**
Patent Applicant/Assignee:
  HARRIS CORPORATION, 1025 W. NASA Blvd., Melbourne, FL 32919, US, US
    (Residence), US (Nationality)
Inventor(s):
  BILLHARTZ Thomas Jay, 2355 Polonius Lane, Melbourne, FL 32934, US,
  FLEMING Frank Joseph, 601 Morning Cove Circle, Palm Bay, FL 32909, US,
Legal Representative:
  YATSKO Michael S (agent), Harris Corporation, 1025 W. NASA Blvd.,
    Melbourne, FL 32919, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200396614 A1 20031120  (WO 0396614)
  Application:         WO 2003US14324 20030507   (PCT/WO US0314324)
  Priority Application: US 2002143153 20020510
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK
  SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: **H04L-009/22**
International Patent Class: **H04L-009/00 ; G06F-017/00**
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 4438

English Abstract
  A secure wireless local or metropolitan area network (10) and data

communications devices therefore are provided (11n), where the device (11n) transmits plain text in an encrypted message including cipher text and an initialization vector. The device may include a seed generator (20) for performing a one-way algorithm using a secret key, a device address, and a changing reference value for generating a seed. Further, a random initialization vector (IV) generator (21) may be included for generating a random IV, and a key encryptor (22) may generate a key sequence based upon the seed and the random IV. Additionally, a logic circuit (23) may be included for generating cipher text based upon the key sequence and plain text, and a wireless communications device (25) may be connected to the logic circuit (23) and the random IV generator (21) for wirelessly transmitting the encrypted message.

French Abstract
  L'invention concerne un reseau local ou metropolitain sans fil securise (10) et leurs dispositifs de communications de donnees (11n). Ces dispositifs (11n) transmettent des textes clairs dans un message crypte comprenant un cryptogramme et un vecteur d'initialisation. Le dispositif peut comprendre un generateur de graines (20) servant a mettre en oeuvre un algorithme unilateral au moyen d'une cle secrete; une adresse du dispositif; et une valeur de reference variable pour generer une graine. Un generateur (21) de vecteur d'initialisation aleatoire (IV) peut en outre etre inclus pour generer un vecteur d'initialisation aleatoire; et un crypteur de cles (22) peut produire une sequence cle basee sur la graine et le vecteur d'initialisation aleatoire. De plus, un circuit logique (23) peut etre inclus pour produire un cryptogramme base sur la sequence cle et le texte clair; et un dispositif de communications sans fil (25) peut etre connecte au circuit logique (23) et au generateur (21) de vecteur d'initialisation aleatoire pour transmettre sans fil le message crypte.

Legal Status (Type, Date, Text)
Publication   20031120 A1 With international search report.
Publication   20031120 A1 Before the expiration of the time limit for
                          amending the claims and to be republished in the
                          event of the receipt of amendments.
Examination   20040506 Request for preliminary examination prior to end of
                          19th month from priority date

Main International Patent Class:  **H04L-009/22**
International Patent Class:  **H04L-009/00** ...
Fulltext Availability:
  Detailed Description

Detailed Description
...  further deterrent to many would be
  hackers.

  The 802.11 standard is for Use with **wireless**
  communications devices which have associated therewith a
  plurality of application control layers, one of which is the
  **media   access   controller** ( **MAC** ) layer. The **MAC** layer typically
  has a sequence number associated therewith which is updated
  with each **encrypted** message that is sent. In accordance with
  the invention, the changing reference value may conveniently
  be the **MAC** layer sequence number, although other changing
  reference values may be generated or used for creating...

  **27/5,K/13      (Item 13 from file: 349)**
  DIALOG(R)File 349:PCT FULLTEXT

01047036    **Image available**
**TEST SYSTEM FOR SIMULATING A WIRELESS ENVIRONMENT AND METHOD OF USING SAME**
**SYSTEME  D'ESSAI PERMETTANT DE SIMULER UN ENVIRONNEMENT SANS FIL ET PROCEDE**
**    D'UTILISATION DE CE SYSTEME**
Patent Applicant/Assignee:
  AZIMUTH NETWORKS INC, 31 Nagog Park, Acton, MA 01720, US, US (Residence),
    US (Nationality)
Inventor(s):
  MLINARSKY Fanny I, 387 Berlin Road, Bolton, MA 01740, US,
  WRIGHT Charles R, 108 Sylvester Avenue, Winchester, MA 01890, US,
  GRIESING John R, 28360 West Heritage Oak Road, Barrington, IL 60010, US,
Legal Representative:
  LOWRY David D (et al) (agent), Brown Rudnick Berlack Israels LLP, One
    Financial Center, Boston, MA 02111, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200377060 A2-A3 20030918 (WO 0377060)
  Application:         WO 2003US6398 20030304   (PCT/WO US0306398)
  Priority Application: US 2002361572 20020304
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG
  SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04Q-007/20
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 15925

English Abstract
  A method and system for simulating a wireless environment is provided
  including a central RF combining component (110); a plurality of
  connection nodes (102), each connection node (102) in RF connection with
  the central RF combining component (110) through a programmable
  attenuation component (108); wherein the programmable attenuation
  components (108) are controlled by a controller console, the controller
  console maintaining information regarding simulated spatial positioning
  of the plurality of connection nodes (102) in the simulated wireless
  environment, and adjusting the programmable attenuation components (108)
  to appropriately simulate the simulated spatial positioning of the
  connection nodes (102) in the simulated wireless environment.
  Additionally, an RF module (448) for creating and receiving RF signals in
  a test environment is provided.

French Abstract
  L'invention concerne un procede et un systeme de simulation d'un
  environnement sans fil, comprenant une composante de combinaison RF
  centrale, plusieurs noeuds de connexion, chaque de noeud de connexion
  etant en connexion RF avec la composante de combinaison RF centrale a
  travers une composante d'attenuation pouvant etre programmee. Les

composantes d'attenuation pouvant etre programmees sont commandees par une console d'unite de commande, cette console d'unite de commande maintenant des informations concernant le positionnement spatial simule des noeuds de connexion dans l'environnement sans fil simule, et reglant les composantes d'attenuation pouvant etre programmees afin de simuler de facon appropriee le positionnement spatial simule des noeuds de connexion dans l'environnement sans fil simule. L'invention concerne egalement un module RF destine a creer et recevoir des signaux RF dans un environnement d'essai.

Legal Status (Type, Date, Text)
Publication   20030918 A2 Without international search report and to be
                           republished upon receipt of that report.
Search Rpt    20031127 Late publication of international search report
Republication 20031127 A3 With international search report.
Examination   20031218 Request for preliminary examination prior to end of
                           19th month from priority date

Fulltext Availability:
  Detailed Description

Detailed Description
...   address, and implements the remaining functionality necessary to
   completely simulate a single IEEE 802.11 **wireless    client**   104. This
   functionality may include, but is not limited to   **encryption**   and
   **decryption** , fragmentation and defiragmentation and functionality of
   interest normally associated with the IEEE 802.11 **MAC**   sublayer
   Management Entities, such as Power Management, Timing and Synchronization
   Function, Authentication and Association management...


 **27/5,K/17      (Item 17 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00901746     **Image available**
**POSITIONING   A   SUBSCRIBER   TERMINAL   IN A PACKET-SWITCHED MOBILE TELEPHONY
    NETWORK USING BOTH PACKET-SWITCHED AND CIRCUIT-SWITCHED MESSAGES**
**LOCALISATION   D'UN   TERMINAL D'ABONNE DANS UN RESEAU DE TELEPHONIE MOBILE A
    COMMUTATION   DE   PAQUETS UTILISANT DES MESSAGES A LA FOIS A COMMUTATION
    DE PAQUETS ET A COMMUTATION DE CIRCUITS**
Patent Applicant/Assignee:
  NOKIA CORPORATION, Keilalahdentie 4, FIN-02150 Espoo, FI, FI (Residence),
    FI (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  VANTTINEN Veijo, Mustarinne 8, FIN-02770 Espoo, FI, FI (Residence), FI
    (Nationality), (Designated only for: US)
  RAJALA Jussi, Huhtakoukku 31 C, FIN-02340 Espoo, FI, FI (Residence), FI
    (Nationality), (Designated only for: US)
Legal Representative:
  JOHANSSON Folke (agent), c/o Nokia Corporation, P.O. Box 226, FIN-00045
    Nokia Group, FI,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200235877 A1 20020502 (WO 0235877)
  Application:         WO 2001FI909 20011018  (PCT/WO FI0100909)
  Priority Application: FI 20002337 20001024
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY BZ CA CH CN CO CR

CU CZ CZ (utility model) DE DE (utility model) DK DK (utility model) DM
DZ EC EE EE (utility model) ES FI FI (utility model) GB GD GE GH GM HR HU
ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX
MZ NO NZ PH PL PT RO RU SD SE SG SI SK SK (utility model) SL TJ TM TR TT
TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04Q-007/38
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 8076

English Abstract
  The object of the invention is a method, network element, and system for
  positioning a subscriber terminal in a packet-switched mobile telephone
  network, the said network comprising a core network element (SGSN, 504),
  base stations, a Base Station Controller (501) controlling these, and a
  mobile terminal; the connections in the mobile telephone network are
  arranged in a packet-switched fashion. The system comprises a location
  unit (SMLC, 505) for determining the position of the terminal,
  functionally connected with the Base Station Controller (501) of the
  mobile telephone network; the connection between the Base Station
  Controller (501) and the location unit (SMLC) is circuit-switched. The
  base station controller (501) comprises both circuit-switched (BSC) and
  packet-switched (PCU) functionality for processing circuit-switched, and
  respectively, packet-switched messages, as well as means (506, 507) for
  establishing an association between the circuit-switched and the
  packet-switched functionality for the transmission of data related to a
  specific positioning between the packet-switched and the circuit-switched
  functionality.

French Abstract
  L'invention concerne un procede, un element de reseau et un systeme
  permettant de localiser un terminal d'abonne dans un reseau telephonique
  mobile a commutation de paquets, ledit reseau comportant un element de
  reseau central (noeud de support GPRS de service (SGSN), 504), des
  stations de base, un controleur de station de base (501) commandant
  lesdites stations, et un terminal mobile ; les connexions du reseau
  telephonique mobile sont disposees pour la commutation de paquets. Le
  systeme comporte une unite de localisation (centre serveur de
  localisation (SMLC), 505) afin de localiser un terminal, laquelle unite
  est fonctionnellement connectee au controleur de station de base (501) du
  reseau telephonique mobile ; La connexion entre le controleur de station
  de base (501) et l'unite de localisation (SMLC) est a commutation de
  circuits. Le controleur de station de base (501) comprend une
  fonctionnalite a la fois de commutation de circuits (controleur de
  station de base) et de commutation de paquets (unite de commande de
  paquets) pour traiter des messages respectivement a commutation de
  circuits et a commutation de paquets, ainsi que des supports (506, 507)
  destines a associer les fonctionnalites de commutation de circuits et de
  commutation de paquets afin de transmettre des donnees relatives a une
  localisation specifique entre la fonctionnalite de commutation de paquet
  et la fonctionnalite de commutation de circuits.

Legal Status (Type, Date, Text)
Publication   20020502 A1 With international search report.

Examination    20020808 Request for preliminary examination prior to end of
                    19th month from priority date

Fulltext Availability:
  Detailed Description

Detailed Description
...   to minimise the effect of a modified air interface on the network
  component of the **mobile   telephone** network. The information to be
  transmitted, as well as the user data, will be protected by **encryption** .
  Between the Urn and Gb interfaces, the LLC data will be transmitted in
  the LLC relaying layer LLC RELAY.

  The **MAC**  (Medium Access Control) layer is responsible for the following
  tasks.

  multiplexing of data and signalling...
?

30/5,K/1     (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01763349
**Method for fast roaming in a wireless network**
**Vefahren zum schnellen Umherstreifen in einem drahtlosen Netzwerk**
**Methode d'itinerance rapide dans un reseau sans fil**
PATENT ASSIGNEE:
   Samsung Electronics Co., Ltd., (4445713), 416 Maetan-dong, Yeongtong-gu,
      Suwon-si, Gyeonggi-do, (KR), (Applicant designated States: all)
    THE UNIVERSITY OF MARYLAND  COLLEGE PARK, (2186531), College Park Campus,
      College Park, Maryland 20472, (US), (Applicant designated States: all)
INVENTOR:
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    , (KR)
   Jang, Kyung-Hun, 102-505, Dongsuwon LG Village Apt. Mangpo-dong,
      Paldal-gu Suwon-si Gyeonggi-do, (KR)
   Shin, Min-Ho, 8301 Ashford Blvd., Apt. 919, Laurel, MD 20707, (US)
   Arbaugh, William Albert, 4264 Hermitage Drive, Ellicott City, MD 21042,
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   Mishra, Arunesh, 7811 Mandan Road, No. 301, Greenbelt, MD 20770, (US)
LEGAL REPRESENTATIVE:
   Grunecker, Kinkeldey,  Stockmair & Schwanhausser Anwaltssozietat (100721)
    , Maximilianstrasse 58, 80538 Munchen, (DE)
PATENT (CC, No, Kind, Date):  EP 1439667  A2  040721 (Basic)
APPLICATION (CC, No, Date):   EP 2004000636 040114;
PRIORITY (CC, No, Date): US 439891 P 030114
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
   HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK
INTERNATIONAL PATENT CLASS: H04L-012/28; H04L-012/56

ABSTRACT EP 1439667 A2
   A roaming service method for a fast and secure wireless network is
   provided. In an embodiment of the present invention, an AP, which an STA
   associates with, transmits security keys needed for roaming to neighbor
   APs of the AP. When the STA moves to one of the neighbor APs, a
   reassociation is carried out between the STA and the neighbor AP using
   the already provided security key. In another embodiment of the present
   invention, an authentication server transmits security keys needed for
   roaming to neighbor APs to which the STA is likely to move, so that when
   the STA moves to one of the neighbor APs, a reassociation is carried out
   between the STA and the neighbor AP using the already provided security
   key.
ABSTRACT WORD COUNT: 125
NOTE:
   Figure number on first page: 8B

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application:     040721 A2 Published application without search report
 Examination:     040721 A2 Date of request for examination: 20040114
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text  Language   Update    Word Count
      CLAIMS A  (English)  200430     1078
      SPEC A    (English)  200430     8282
Total word count - document A         9360
Total word count - document B            0
Total word count - documents A + B    9360

...SPECIFICATION standard regulates that data is encrypted by a WEP (Wired
Equivalent Privacy) algorithm and the **encryption** key is shared
preliminarily and used as fixed. For details, see "ISO/IEC, " **Wireless**
**LAN Medium Access Control** ( **MAC** ) and Physical layer (PHY)
specifications," ISO/IEC 8802-11, ANSI/IEEE Std 802.11, 1999".
   To correct **wireless** security flaws of the IEEE 802.11-based WLAN
systems, IEEE 802.11i specifies IEEE...


**30/5,K/2**     **(Item 2 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
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01753546
**Method and device for prefetching frames**
**Verfahren und Vorrichtung zur Rahmenvorausholung**
**Procede et dispositif de pre-extraction des trames**
PATENT ASSIGNEE:
  SYNAD TECHNOLOGIES LIMITED, (4663080), Abbey House, 1650 Arlington
    Business Park, Theale, Reading Berkshire, RG7 4SA, (GB), (Applicant
    designated States: all)
INVENTOR:
  Teague, Roger Herbert, 33 Kiln Drive, Nr. Thatcham, Berkshire RG19 9EG,
    (GB)
LEGAL REPRESENTATIVE:
  Frost, Alex John (85791), Boult Wade Tennant, Verulam Gardens 70 Gray's
    Inn Road, London WC1X 8BT, (GB)
PATENT (CC, No, Kind, Date):  EP 1434391  A2  040630 (Basic)
APPLICATION (CC, No, Date):   EP 2003258218 031223;
PRIORITY (CC, No, Date): GB 230031 021223
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
  HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK
INTERNATIONAL PATENT CLASS: H04L-012/28

ABSTRACT EP 1434391 A2
   A method of communicating between a transmitter and a receiver in a
WLAN is disclosed. The transmitter has a Medium Access Control (MAC)
layer. Data to be sent from the transmitter to the receiver is placed in
a first data queue during a first period of time, and in a second data
queue during a second period of time. Whilst the second queue is being
filled from the MAC layer during the second time period, the data stored
in the first queue is being filled from the MAC layer during the first
time period, the data in the second queue is transmitted to the receiver.
Thus there is provided an efficient co-ordination and transmission of
data frames from wireless devices, and a high performance flow of traffic
between clients and APs.
ABSTRACT WORD COUNT: 132
NOTE:
  Figure number on first page: 4

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application:      040630 A2 Published application without search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text  Language   Update   Word Count
      CLAIMS A  (English)  200427     694
      SPEC A    (English)  200427    3228
Total word count - document A      3922
Total word count - document B         0
Total word count - documents A + B 3922

...SPECIFICATION MAC layer controls the co-ordination of frames having time-critical functions, while the upper **MAC** handles frames having non-critical time constraints. The upper **MAC** typically co-ordinates management frames including authentication, association and **encryption** and de- **encryption** frames. The lower **MAC** controls functionalities including frame transmission queues, where frames can be buffered before transmission until the **wireless** medium is free, and beacon frames.
In the present embodiment of the invention, if data...


**30/5,K/3     (Item 3 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
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01740593
**Adaptive adjustment of backoff times in wireless network communications**
**Adaptive Anpassung von Backoff-Zeiten des Kommunikationen im drahtlosen Netzwerk**
**Reglage adaptatif des temps de backoff pour des communications dans un reseau sans fil**
PATENT ASSIGNEE:
  TEXAS INSTRUMENTS INCORPORATED, (279070), 13500 North Central Expressway, Dallas Texas 75265, (US), (Applicant designated States: all)
INVENTOR:
  Yonghe, Liu, 6632 Shady Brook Lane, #4198, Dallas, Texas 75206, (US)
  Shoemake, Matthew B., 701 Laredo Circle, 75013, Allen, (US)
  Ho, Jin-Meng, 7700 Cherry Creek Drive, 75025, Plano, (US)
LEGAL REPRESENTATIVE:
  Holt, Michael et al (50425), Texas Instruments Ltd., PO Box 5069, Northampton, Northamptonshire NN4 7ZE, (GB)
PATENT (CC, No, Kind, Date): EP 1424814 A1 040602 (Basic)
APPLICATION (CC, No, Date):  EP 2003104397 031126;
PRIORITY (CC, No, Date): US 304973 021126
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK
INTERNATIONAL PATENT CLASS: H04L-012/28; H04L-012/56; H04Q-007/38

ABSTRACT EP 1424814 A1
  A wireless network, including a plurality of network elements such as a wireless access point (9), and computer stations (2, 4, 6), is disclosed. The wireless network operates so that each network element (2, 4, 6, 9) waits for a pseudo-randomly selected duration, after the end of a frame on the channel, before initiating transmission. One of the network elements, such as the wireless access point (9), measures the performance of the network over a measurement period (T), and adjusts a minimum value of the upper limit of the range from which the random duration is selected, according to the performance of the network over the measurement period. The times measured may be the successful transmission time (Ts))), which is maximized in adjusting the minimum value, or the idle and collision times (Ti)), Tc))), which are equated in the optimization of the minimum value.
ABSTRACT WORD COUNT: 145
NOTE:
  Figure number on first page: 6

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application:    040602 A1 Published application with search report
LANGUAGE (Publication,Procedural,Application): English; English; English

...SPECIFICATION spectrum processor 40 according to the preferred
embodiments of the invention. The functionality performed by **MAC** 38 and
baseband processor 42 corresponds to that in conventional **wireless**
network adapters, for example as implemented in the TNETW1100 single-chip
WLAN **medium** **access** **controller** ( **MAC** ) noted above. In summary, **MAC**
38 generates the appropriate packets for **wireless** communication, such
packets including the acknowledge (ACK), RTS, CTS, probe response, and
beacon packets; **MAC** 38 also provides encryption and **decryption**
functionality, and can be used to implement wired equivalent privacy
(WEP). Baseband processor 42 performs...


**30/5,K/8      (Item 8 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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01135003     **Image available**
**PROTECTING REAL-TIME DATA IN WIRELESS NETWORKS**
**PROTECTION DE DONNEES EN TEMPS REEL DANS DES RESEAUX HERTZIENS**
Patent Applicant/Assignee:
  KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA
    Eindhoven, NL, NL (Residence), NL (Nationality), (For all designated
    states except: US)
Patent Applicant/Inventor:
  MELPIGNANO Diego, c/o Prof . Holstlaan 6, NL-5656 AA Eindhoven, NL, IT
    (Residence), IT (Nationality), (Designated only for: US)
  SIORPAES David, c/o Prof . Holstlaan 6, NL-5656 AA Eindhoven, NL, IT
    (Residence), IT (Nationality), (Designated only for: US)
Legal Representative:
  GROENENDAAL Antonius W M (agent), Philips Intellectual Property &
    Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200457817 A2 20040708 (WO 0457817)
  Application:         WO 2003IB5345 20031120  (PCT/WO IB03005345)
  Priority Application: EP 200280374 20021219
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK
  LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC
  SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04L-012/64
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims

Fulltext Word Count: 4456

English Abstract
  The invention provides a traffic shaper module allocates more bandwidth
  to real-time data in wireless TCP/IP networks where accessible bandwidth
  is limited. This is particular relevant for IEEE 802.11b networks. For
  downstream data, the traffic shaper module can be set to control the
  transmission to all clients and thereby give priority to the port
  carrying real-time data. For the upstream case, data transmission from
  all kinds of standard devices is to be reduced or delayed. Hence, the
  data transmissions from other clients have to be controlled remotely from
  the access point. By delaying or discarding packets, such as TCP
  acknowledgements, to other clients, the traffic shaper module
  artificially increases their Round Trip Time (RTT). The protocol at these
  clients responds to the increased RTT by transmitting data at a lower
  rate, thereby leaving more bandwidth for the real-time data port.

French Abstract
  L'invention concerne un module mise en forme de trafic attribuant plus de
  largeur de bande aux donnees en temps reel dans les reseaux hertziens
  TCP/IP ou la largeur de bande accessible est limitee. Les reseaux IEEE
  802.11b sont particulierement concernes. Pour des donnees descendantes,
  le module mise en forme de trafic peut etre regle pour commander
  l'emission vers tous les clients et pour accorder de ce fait la priorite
  au port portant des donnees en temps reel. Pour le cas de donnees
  montantes, l'emission de donnees de toutes sortes de dispositifs standard
  doit etre reduite ou retardee. Par consequent, les emissions de donnees
  d'autres clients doivent etre commandees eloignees du point d'acces. En
  retardant ou en jetant des paquets, tels que des accuses de reception
  TCP, concernant d'autres clients, le module de mise en forme de trafic
  augmente artificiellement leur temps de transmission aller-retour (RTT).
  Le protocole concernant ces clients repond au RTT accru par emission des
  donnees a un debit inferieur, laissant de ce fait plus de largeur de
  bande pour le port de donnees en temps reel.

Legal Status (Type, Date, Text)
Publication   20040708 A2 Without international search report and to be
                          republished upon receipt of that report.

Fulltext Availability:
  Detailed Description

Detailed Description
...   on the size of the upstream EP packets. Upstream packet sizes are
    known at the **MAC**  layer and are made available by the **wireless**  network
    driver.

    If the traffic is  **encrypted**  the sorting operation can be more
    complicated. If the Secure Socket Layer (SSL) mechanism is...


 **30/5,K/9**      **(Item 9 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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01076526     **Image available**
**SYNCHRONIZATION** OF A  COUNTER VALUE EMPLOYED AS A PARAMETER FOR CIPHERING
    **AND DECIPHERING IN A MOBILE COMMUNICATION SYSTEM**
**SYNCHRONISATION  D'UNE  VALEUR DE COMPTEUR EMPLOYEE COMME PARAMETRE POUR LE**
    **CHIFFREMENT ET DECHIFFREMENT DANS UN SYSTEME DE COMMUNICATION MOBILE**
Patent Applicant/Assignee:

English Abstract
   A method is presented for synchronizing the counters in a mobile station
   MS and in a network element BSS of a mobile communication network,
   wherein the respective value of the counters is employed as a parameter
   for ciphering/deciphering data transmitted between the mobile station MS
   and the network element BSS. In order to enable such a synchronization,
   it is proposed that the method comprises transmitting the least
   significant bit HFN LSB of the current counter value in the mobile
   station MS or in the network element BSS to the respective other entity
   during an establishment of a temporary data connection between the two
   entities. Further, it is proposed that the method comprises synchronizing
   the counter at the respective other entity based at least on the
   transmitted least significant bit. A corresponding mobile station MS and
   a corresponding network element BSS are also presented .

French Abstract
   La presente invention concerne un procede permettant de synchroniser les
   compteurs dans une station mobile (MS) et un element de reseau (BSS) d'un
   reseau de communication mobile dans lequel les valeurs respectives des
   differents compteurs sont employees comme parametre pour les donnees de
   chiffrement/dechiffrement echangees entre la station mobile (MS) et
   l'element de reseau (BSS). Pour permettre une telle synchronisation, il
   est propose de prendre le bit de poids le plus faible (HFN LSB) de la
   valeur courante du compteur de la station mobile (MS) ou de l'element de
   reseau (BSS) et de le transmettre a l'autre entite correspondante pendant
   l'etablissement d'une connexion numerique temporaire entre les deux
   entites. Il est propose egalement, pour synchroniser le compteur de
   l'autre entite correspondante, de se baser sur au moins le bit de poids
   le plus faible transmis. L'invention concerne egalement une station

mobile (MS) et un element de reseau (BSS) selon l'invention.

Legal Status (Type, Date, Text)
Publication   20031224 A1 With international search report.
Examination   20040325 Request for preliminary examination prior to end of
                      19th month from priority date

Fulltext Availability:
  Detailed Description

Detailed Description
...   synchronization of the HFN
   counters, the subsequent uplink RLC data blocks can be
   ciphered and  **deciphered**  correctly.

   When a  **mobile**  station is in the  **MAC** -Idle state, a packet
   access can be achieved either in one phase or in two...


   **30/5,K/10**      (Item 10 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01064293     **Image available**
**PARTITIONED MEDIUM ACCESS CONTROL**
**COMMANDE D'ACCES AU SUPPORT CLOISONNEE**
Patent Applicant/Assignee:
  GLOBESPAN VIRATA INC, 100 Schulz Drive, Red Bank, NJ 07701, US, US
     (Residence), US (Nationality)
Inventor(s):
  FISCHER Michael Andrew, 22 Inwood Manor, San Antonio, TX 78248-1632, US,
  GODFREY Timothy Gordon, 12839 King Street, Overland Park, KS 66213, US,
Legal Representative:
  DEMONT & BREYER LLC (agent), Suite 250, 100 Commons Way, Holmdel, NJ
     07733, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200394452 A2-A3 20031113 (WO 0394452)
  Application:         WO 2003US13766 20030502   (PCT/WO US2003013766)
  Priority Application: US 2002377679 20020503; US 2003421265 20030423
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG
  SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04L-012/56
International Patent Class: H04L-012/28
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 3953

English Abstract

A novel Medium Access Control (MAC) architecture for IEEE 802.11 wireless
local area networks is disclosed. The illustrative embodiment partitions
the medium access control into an Upper Medium Access Control for
providing medium-access-control services that are independent of a
Physical Control, and a Lower Medium Access Control for providing
medium-access-control services that are dependent on the Physical
Control. By partitioning the Medium Access Control in this manner, a
single Upper Medium Access Control can be employed for any existing or
future Physical Control while maintaining full compatibility with the
huge installed base of existing IEEE 802.11 equipment. It will be clear
to those skilled in the art how to make and use alternative embodiments
of the present invention for networks that employ protocols other than
IEEE 802.11.

French Abstract
L'invention concerne une architecture de commande d'acces au support
cloisonnee pour reseaux de zone locale sans fil IEEE 802.11. Le mode de
realisation illustrateur separe la commande d'acces au support en une
commande d'acces au support superieure permettant de fournir des services
de commande d'acces au support qui sont independants d'une commande
physique, et en une commande d'acces au support inferieure permettant de
fournir des services de commande d'acces au support qui sont dependants
de la commande physique. Un tel cloisonnement de la commande d'acces au
support permet l'utilisation d'une seule commande d'acces au support
superieure pour toute commande physique existante ou future, tandis
qu'est maintenue une compatibilite complete avec l'importante base
installee de l'equipement existant IEEE 802.11. Ceci paraitra evident aux
experts aptes a realiser et a utiliser des autres modes de realisation de
cette invention pour les reseaux qui utilisent des protocoles autres que
IEEE 802.11.

Legal Status (Type, Date, Text)
Publication   20031113 A2 Without international search report and to be
                         republished upon receipt of that report.
Search Rpt    20040108 Late publication of international search report
Republication 20040108 A3 With international search report.
Examination   20040205 Request for preliminary examination prior to end of
                         19th month from priority date

Fulltext Availability:
  Detailed Description

Detailed Description
...  well-known in the art.

   [0021] Figure 3 depicts a conceptual architectural diagram of a  **wireless**
   station in accordance with the illustrative embodiment of the present
   invention. As shown in Figure 3,. **Medium    Access    Control** 220 is
   partitioned into Upper Medium Access Control 310 and Lower Medium Access
   Control 320. Upper **Medium    Access    Control** 310 provides a subset of
   **medium - access - control**  services that are independent of Physical
   Control 230, including transmit queueing, **encryption , decryption ,**
   authentication, association, reassociation, scanning, distribution, and
   traffic categorization (for the purposes of, for example but...

   **30/5,K/11      (Item 11 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

01037446    **Image available**

MEDIUM ACCESS CONTROL IN A WIRELESS NETWORK
COMMANDE D'ACCES AU SUPPORT DANS UN RESEAU SANS FIL

English Abstract
  A MAC architecture (Fig 2, 24) for WLAN (Fig1, 14) stations (Fig 1, 16)
  partitions functionality between a software-based MAC component (Fig3,
  24A) and a hardware-based MAC component (Fig3, 24B) that work together to
  balance function and performance (Fig 8). In general, the fulcrum for
  this balance centers on timing requirements (Fig 12). Accordingly, the
  hardware-based MAC component is designed to handle many of the functions
  that are processor-intensive and/or must be performed under strict timing
  constraints (Fig 6). The software-based MAC component is designed to
  handle many of the functions that are memory-intensive, but present more
  lenient timing requirements (Fig 7). The software-based MAC component may
  be configured to provide an efficient and robust interface to the
  hardware-based MAC component (Fig 5, 25). In particular, the
  software-based MAC component may format and prioritize packets to be sent
  over the air interface (Fig 9) , and generate a command structure that
  provides instructions for the hardware-based MAC component to process the
  packet (Fig 10).

French Abstract
  L'invention concerne une architecture de commande d'acces au support
  (MAC) (fig. 2, 24) destinee aux stations d'un reseau local sans fil
  (WLAN) (fig. 1, 14). Dans cette architecture, la fonctionnalite est
  divisee entre un composant MAC logiciel (fig. 3, 24A) et un composant MAC
  materiel (fig. 3, 24B) qui cooperent de maniere a equilibrer fonction et
  performance (Fig. 8). En general le parametre determinant pour cet

equilibre est centre sur les contraintes de synchronisation (Fig. 12). Le composant MAC materiel est par consequent concu pour gerer un grand nombre des fonctions qui sont gourmandes en temps de processeur et/ou doivent etres executees en respectant des contraintes de synchronisation strictes (Fig. 6). Le composant MAC logiciel est configure pour gerer un grand nombre des fonctions qui sont voraces en memoire, mais presentent des contraintes de synchronisation moins rigides (Fig. 6). Le composant MAC logiciel peut configure de maniere a fournir une interface efficace et robuste avec le composant MAC materiel (Fig. 5, 25). Il peut en particulier formater et classer par ordre de priorite les paquets devant etre envoyes par l'interface radio (Fig. 9), et generer une structure de commande qui genere des instructions concernant le traitement des paquets, destinees au composant MAC materiel (Fig. 10).

Legal Status (Type, Date, Text)
Publication   20030814 A1 With international search report.
Publication   20030814 A1 Before the expiration of the time limit for
                         amending the claims and to be republished in the
                         event of the receipt of amendments.
Examination   20031127 Request for preliminary examination prior to end of
                         19th month from priority date

Fulltext Availability:
  Detailed Description
Detailed Description
...  of the functions that are traditionally performed at higher layers of
   communication stacks in the  **MAC**  layer. For example, the IEEE 802.11
   standards require that the  **MAC**  layer be responsible for scanning,
   authentication, association,  **encryption** , fragmentation, and power
   management. Hence, a  **MAC**  layer designed for  **wireless**  networking may
   require delivery of high-level fimctionality in combination with
   low-level responsiveness. Such...


 **30/5,K/12      (Item 12 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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01009026     **Image available**
**WIRELESS LANS AND NEIGHBORHOOD CAPTURE**
**RESEAUX LOCAUX SANS FIL ET CAPTURE DE VOISINAGE**
Patent Applicant/Assignee:
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    (Residence), US (Nationality)
Inventor(s):
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Legal Representative:
  SZWERC Christine M (et al) (agent), AT & T Corp., P.O. Box 4110,
    Middletown, NJ 07748-4110, US,
Patent and Priority Information (Country, Number, Date):
  Patent:             WO 200339054 A2-A3 20030508 (WO 0339054)
  Application:        WO 2002US36425 20021028  (PCT/WO US02036425)
  Priority Application: US 2001330930 20011102; US 2001985257 20011102; US
    2001331030 20011107; US 2001331211 20011113; US 2001342343 20011221; US
    2002187132 20020628; US 2002256299 20020927; US 2002256309 20020927; US
    2002256305 20020927; US 2002256516 20020927; US 2002256471 20020927; US
    2002256384 20020927
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ

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EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
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Main International Patent Class: H04Q-007/24
International Patent Class: H04L-012/413; H04J-003/06
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 10416

English Abstract
  Overlapped wireless LAN cells in a medium have an equal chance at
  establishing a session on the medium. A first member station in the first
  cell transmits a timing packet containing a timestamp value, which is
  received at a second member station in the second cell. This synchronizes
  member stations in the first and second ells to interrupt transmissions
  at a global channel release instant corresponding to the timestamp value.
  The member stations in the first and second cells then have the
  opportunity to content for accessf to the medium following the global
  channel release instant, using a slotted CSMA/CA access method. Each of
  the member station in the first and second cells has a superframe clock
  that is synchronized based on the timestamp value, thereby establishing a
  periodic global channel relase instant during each of a plurality of
  periodic superframes. The member stations can then periodically interrupt
  transmissions at the periodic global channel release instant to content
  for the medium. The periodic global channel release instant occurs at
  intervals that are sufficiently close to meet delay and jitter
  restrictions for time-critical voice and video applications.

French Abstract
  L'invention concerne des cellules de reseaux locaux, LAN, sans fil se
  chevauchant dans un support, qui ont une chance egale d'etablir une
  session sur le support. Une premiere station membre dans la premiere
  cellule emet un paquet de synchronisation contenant une valeur
  d'horodateur, qui est recu par une seconde station membre dans la seconde
  cellule. Les stations membres sont ainsi synchronisees dans les premiere
  et seconde cellules pour interrompre des emissions a un instant de
  liberation de canal global correspondant a la valeur d'horodateur. Les
  stations membres dans les premiere et seconde cellules ont alors la
  possibilite de se disputer l'acces au support a la suite de l'instant de
  liberation de canal global par un procede d'acces CSMA/CA a fentes.
  Chacune des stations membres dans la premiere et dans la seconde stations
  membres a une horloge a supertrame synchronisee sur la base de la valeur
  d'horodateur. Un instant de liberation de canal global periodique peut
  ainsi etre etabli pendant chacune des nombreuses supertrames periodiques.
  Les stations membres peuvent donc interrompre periodiquement des
  emissions a l'instant de liberation de canal global periodique pour
  rivaliser pour le support. Ledit instant survient a des intervalles qui
  sont suffisamment rapproches pour repondre aux restrictions en matiere de
  retard et de guigue pour des applications vocales et video a duree
  critique.

Examination    20030731 Request for preliminary examination prior to end of
                        19th month from priority date
Search Rpt     20040226 Late publication of international search report
Republication  20040226 A3 With international search report.

Fulltext Availability:
  Detailed Description

Detailed Description
...  using the
   25 Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)
   access method. The  **MAC**  provides link setup, data fragmentation,
   authentication,  **encryption** , and power management.

   Synchronization is the process of the stations in an
   IEEE 802.11  **wireless**  LAN cell getting in step with each other, so that
   reliable communication is possible. The  **MAC**  provides the
   synchronization mechanism to allow support of physical layers that
   make use of frequency...


  **30/5,K/14       (Item 14 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00989375    **Image available**
**WIRELESS DEVICE ATTACHMENT AND DETACHMENT SYSTEM, APPARATUS AND METHOD**
**SYSTEME, APPAREIL  ET PROCEDE DE RACCORDEMENT ET DE FIN DE RACCORDEMENT DE**
   **DISPOSITIF SANS FIL**
Patent Applicant/Assignee:
  GENERAL ATOMICS, 3550 General Atomics Court, San Diego, CA 92121-1122, US
   , US (Residence), US (Nationality), (For all designated states except:
   US)
Patent Applicant/Inventor:
  GEHRING Stephan Walter, 2045 Avy Avenue, Menlo Park, CA 94025, US, US
   (Residence), CH (Nationality), (Designated only for: US)
  PETERS Daniel Paul, 7885 Sitio Mirto, Carlsbad, CA 92009, US, US
   (Residence), US (Nationality), (Designated only for: US)
  ELLIS Jason Lee, P.O. Box 28805, San Diego. CA 92198, US, US (Residence),
   US (Nationality), (Designated only for: US)
  ANANTHAKRISHNAN Satish, 3833 Nobel Drive, Apt.3114, San Diego, CA 92122,
   US, US (Residence), IN (Nationality), (Designated only for: US)
Legal Representative:
  SZE James Y (agent), 11682 El Camino Real, Suite200, San Diego, CA
   92130-1593, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200319396 A1 20030306  (WO 0319396)
  Application:         WO 2002US26914 20020822  (PCT/WO US0226914)
  Priority Application: US 2001314524 20010822; US 2002214949 20020807; US
   2002216671 20020809
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
  SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-013/38
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 6809

English Abstract
  A polling method, apparatus, and system capable to detect the attachment
  and detachment of Universal Serial Bus (USB) devices in a wireless USB
  system. A USB hub provides a wired connection to the host, while
  providing wireless attachment points for its devices. The USB host
  periodically queries the hub looking for changes in the hub's status
  register. During each period, the hub sends a polling message through
  each of its wireless ports, and awaits a response. A peripheral device
  that wishes to attach to the system responds to the message by sending
  its unique peripheral address. If a device currently occupies the port,
  the hub sends out the device's unique assigned address as part of the
  polling message.If the device is still present, it responds by sending
  its unique  peripheral address. If the host does not receive a response
  after multiple retries, the device is considered detached. The hub thus
  determines the status of the ports and updates the appropriate bits in
  the status register, which is the queried by the host.

French Abstract
  La presente invention concerne un procede, un appareil et un systeme de
  regroupement capables de detecter le raccordement et la fin de
  raccordement de dispositifs bus seriel universel (USB) dans un systeme
  USB sans fil. Un central USB fournit une connexion filaire a l'hote et
  des points de raccordement pour ses dispositifs. L'hote USB questionne
  periodiquement le central recherchant des modifications dans le registre
  d'etats du central. Pendant chaque periode, le central envoie un message
  de regroupement via chacun de ses ports, et attend une reponse. Un
  dispositif peripherique qui souhaite se raccorder au systeme repond a ce
  message en envoyant son adresse de peripherique unique. Si un dispositif
  occupe actuellement le port, le central envoie l'adresse attribuee unique
  de ce dispositif sous forme de partie du message de regroupement. Si le
  dispositif est toujours present, il repond en envoyant son adresse
  peripherique unique. Si l'hote ne recoit pas de reponse apres de
  multiples nouvelles tentatives, le dispositif est considere comme non
  raccorde. Le central determine ainsi l'etat des ports et met a jour les
  bits appropries dans le registre d'etats, lequel est ensuite demande par
  l'hote.

Fulltext Availability:
  Detailed Description

Detailed Description
...  is any structure that provides the procedures involved in transferring
  a single bit over the **wireless** medium being used by the **wireless**
  module I IO.

  FIG. 3 is a block diagram of a **media   access   control** layer 104,
  constructed and operative in accordance with an embodiment of the present
  invention. In this

5

embodiment, **media** **access** **control** layer 104 comprises a protocol management interface 3 00 and a key management and **encryption** unit (KMEU) 3 1 0.

Protocol management interface 300 is the structure that enables **media** **access** **control** layer 104 to communicate using a particular **wireless** communications protocol, as described above. For example, in a **wireless** Universal Serial Bus (wireless USB) embodiment, protocol management interface 300 processes messages from device interface...

**30/5,K/15      (Item 15 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00984799     **Image available**
**EFFICIENT SECURITY ASSOCIATION ESTABLISHMENT NEGOTIATION TECHNIQUE**
**TECHNIQUE DE NEGOCIATION D'ETABLISSEMENT D'UNE ASSOCIATION DE SECURITE EFFICACE**
Patent Applicant/Assignee:
  NOKIA CORPORATION, Keialahdentie 4, FIN-02150 ESPOO, FI, FI (Residence), FI (Nationality)
  NOKIA INC, 6000 Connection Drive, Irving, TX 75039, US, US (Residence), US (Nationality), (Designated only for: LC)
Inventor(s):
  FACCIN Stefano, 3421 Dartmoor, Dallas, TX 75229-2622, US,
  LE Franck, 2715 W. Royal Lane #212, Irving, TX 75063, US,
Legal Representative:
  STOUT Donald E (et al) (agent), Antonelli, Terry, Stout & Kraus, LLP, Suite 1800, 1300 North Seventeenth Street, Arlington, VA 22209, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200314935 A1 20030220 (WO 0314935)
  Application:         WO 2002IB3135 20020808  (PCT/WO IB0203135)
  Priority Application: US 2001923966 20010808
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
  SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: G06F-011/30
International Patent Class: G06F-015/16; G06F-015/173; H04H-001/00; H04B-007/24
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 3997

English Abstract
  A mobile terminal (200) is connected via a wireless interface to an agent (210) of a visited network (220) which is connected to a visited gateway (230) connected to a home gateway (240). A subscriber

database/authentication center (260) is disposed within the home network (250). It is assumed that there is a pre-established security asociation between the visited GW (230), which can be the visited AAA server, and the agent (210). This Security Association may, for example, be set up offline throufh manual key entry, Internet Key Exchange Protocol or Key Distribution Server specific to the Visited Network (220). This provides security internally to the network so that the operator can choose the level and type of security to be implemented in its network. There is another pre-selected Security Association between Subscriber databse/Authentication Center (260) and the Home GW (240). This security Association may be established in the same fashion as that noted above and also serves to provide security internally to the network. There is still another pre-established Security association between the Home GW (240) and the Visited GW (230).

French Abstract
Selon l'invention, une technique de negociation d'etablissement d'une association de securite consiste a transmettre a un premier element de reseau des informations d'identification d'un noeud mobile, par l'intermediaire d'une premiere interface. Des negociations sont alors entamees entre le premier element de reseau et un second element de reseau servant de mandataire pour le noeud mobile, par l'intermediaire d'une seconde interface. Ces negociations permettent d'etablir une association de securite entre un noeud mobile et un premier element de reseau, le second element de reseau utilisant anterieurement les parametres de l'association de securite stockes du noeud mobile. Suite a un accord entre le premier element de reseau et le second element de reseau par rapport aux parametres de l'association de securite, le premier element de reseau transmet les parametres de l'association de securite convenus, au noeud mobile, par l'intermediaire de la premiere interface. Le premier element de reseau peut comprendre un agent d'origine, un noeud correspondant ou un agent, et la premiere interface peut inclure une interface sans fil permettant d'envoyer des informations entre le noeud mobile et le premier element de reseau. Le premier element de reseau peut comprendre egalement une premiere passerelle connectee audit element. La premiere passerelle peut comprendre egalement un serveur AAA (authentification, autorisation, et comptabilite). Le second element de reseau peut comprendre une seconde passerelle et un centre d'authentification/base de donnees d'un abonne, et la seconde passerelle peut etre connectee au centre d'authentification/base de donnee d'un abonne. La seconde passerelle peut comprendre egalement un serveur AAA.

Fulltext Availability:
  Detailed Description

Detailed Description
...  ciphering key CK. That is, F1 (Ki1
    RAND1) = K and F2 (Ki, RAND2) = CK. The **Mobile** Node 200 sends its

identity through its NAI, for example, to the Agent 210 with the RAND1 and a
**MAC** for integrity protection using the IK. The **Mobile** Node 200 may also
9
protect part of the message using CK **encrypt** it.

Since the message is a request for a Security Association to be set up...


**30/5,K/16     (Item 16 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT

00973591     **Image available**
**AD HOC NETWORK DISCOVERY MENU**
**MENU DE DECOUVERTE DE RESEAU AD HOC**
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    FI (Nationality)
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    US (Nationality)
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  NYMAN Kai, Kirkkalantie 17, FIN-02660 Espoo, FI,
  BOUET Stephane, 4-13-15, Akatsutsumi, Setagaya-ku, Tokyo T156-0044, JP,
Legal Representative:
  HOEL John (agent), Morgan & Finnegan, LLP, 345 Park Avenue, New York, NY
    10154, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200303610 A1 20030109 (WO 0303610)
  Application:         WO 2002IB2325 20020621  (PCT/WO IB0202325)
  Priority Application: US 2001891382 20010627
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
  SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04B-007/00
International Patent Class: H04Q-007/24; H04Q-007/20
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 32605


English Abstract
  When a new wireless device (100) arrives within the communication range
  of any member (106 or 108) of the ad hoc network, its inquiry signals are
  answered by the first member detecting the inquiry. If that first member
  is an ad hoc network information provider (106), it responds with
  information accessed from its service registry characterizing the ad hoc
  network. If, instead, an ordinary device (108) in the ad hoc network is
  the first to respond to the inquiry signals of the arriving device, the

device responds with the address of the ad hoc network information
provider (106). The arriving device (100) then pages the ad hoc network
information provider (106) to obtain information characterizing the ad
hoc network.

French Abstract
  Lorsqu'un dispositif sans fil (100) arrive dans la plage de communication
  d'un element quelconque (106, 108) d'un reseau ad hoc, le premier element
  detectant une demande repond aux signaux de demande provenant dudit
  dispositif. Lorsque ce premier element est un fournisseur d'informations
  (106) du reseau ad hoc, il repond a l'aide d'informations auxquelles on
  accede a partir d'un registre de services caracterisant ledit reseau ad
  hoc. Au contraire, lorsqu'un dispositif ordinaire (108) du reseau ad hoc
  est le premier a repondre aux signaux de demande du dispositif arrivant,
  ledit dispositif repond a l'aide de l'adresse du fournisseur
  d'informations (106) du reseau ad hoc. Puis, le dispositif arrivant (100)
  recherche ledit fournisseur d'informations (106) du reseau ad hoc afin
  d'obtenir des informations caracterisant ledit reseau ad hoc.

Legal Status (Type, Date, Text)
Publication  20030109 A1 With international search report.
Publication  20030109 A1 Before the expiration of the time limit for
                        amending the claims and to be republished in the
                        event of the receipt of amendments.

Fulltext Availability:
  Detailed Description

Detailed Description
...  also provides service inquiring which is similar to the Bluetooth
  inquiry and scan operation. The  **MAC** , provides link setup, data
  fragmentation, authentication,  **encryption** , power management.

  The IEEE 802.11  **wireless**  LAN architecture is built around a basic
  service set (BSS) of stations that communicate with...


  **30/5,K/17      (Item 17 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00778215     **Image available**
**MODEM FOR WIRELESS LOCAL AREA NETWORK**
**MODEM POUR RESEAU LOCAL SANS FIL**
Patent Applicant/Assignee:
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Patent Applicant/Inventor:
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  COOK Robert W, 2244 Aztec Drive West, Jacksonville, FL 32246, US, US
    (Residence), US (Nationality)
  LOOKE Richard C, 1432 Roberts Road, Switzerland, FL 32259, US, US
    (Residence), US (Nationality)
  MOSES Charley D Jr, 3170 Ricky Drive, Jacksonville, FL 32223, US, US
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  RAWLINS Gregory S, 4314 Naranja Drive, Jacksonville, FL 32217, US, US
    (Residence), US (Nationality)
  RAWLINS Michael W, 299 Leslie Lane, Lake Mary, FL 32746, US, US

(Residence), US (Nationality)
Legal Representative:
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    New York Avenue, N.W., Washington, DC 20005-3934, US
Patent and Priority Information (Country, Number, Date):
  Patent:               WO 200111767 A1 20010215 (WO 0111767)
  Application:          WO 2000US21359 20000804  (PCT/WO US0021359)
  Priority Application: US 99147129 19990804; US 2000525615 20000314; US
    2000526041 20000314
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
  ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
  TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H03C-003/40
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 33481

English Abstract
  A transmitter (7102) includes a balanced modulator/up-converter (7104), a
  control signal generator (7142), an optional filter (7106) and an
  optional amplifier (7108). Transmitter (7102) up-converts a baseband
  signal (7110) to produce an output signal (7140) that is conditioned for
  wireless or wire line transmission. In doing so, the balanced modulator
  (7104) receives the baseband signal (7110) and samples the baseband
  signal in a differential and balanced fashion according to the first and
  second control signals that are phase shifted with respect to each other
  and so generated a harmonically rich signal (7138). The resulting
  harmonically rich signal (7138) includes multiple harmonic images that
  repeat at harmonics of the sampling frequency information to reconstruct
  the baseband signal.

French Abstract
  Un emetteur (7102) comprend un modulateur/transposeur de frequence (7104)
  symetrique, un generateur (7142) de signaux de commande, un filtre (7106)
  optionnel et un amplificateur (7108) optionnel. L'emetteur (7102)
  convertit la frequence d'un signal (7110) de bande de base pour produire
  un signal de sortie (7140) conditionne pour effectuer une transmission
  sans fil ou sur ligne metallique. Ainsi, le modulateur (7104) symetrique
  recoit le signal (7110) de bande de base et echantillonne le signal de
  bande de base de maniere differentielle et symetrique en fonction des
  premier et deuxieme signaux de commande dephases l'un par rapport a
  l'autre, creant ainsi un signal (7138) a richesse harmonique. Le signal
  (7138) a richesse harmonique obtenu comprend des images harmoniques se
  repetant dans les harmoniques des donnees de frequence d'echantillonnage
  pour reformer le signal de bande de base.

Legal Status (Type, Date, Text)
Publication   20010215 A1 With international search report.
Examination   20010525 Request for preliminary examination prior to end of
                19th month from priority date

Fulltext Availability:
  Detailed Description

Detailed Description
  ... near isochronous service to the stations on the polling list.
  The third function of the **MAC** is to protect the data that it delivers.
  Because it is difficult to contain **wireless** WLAN signals to a
  particular physical area, the **MAC** provides a privacy service, called
  Wired Equivalent Privacy (WEP), which **encrypts** the data sent over the
  **wireless** medium. The level of encryption chosen approximates the level
  of protection data might have on...


  **30/5,K/18**    **(Item 18 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00775324     **Image available**
**METHOD FOR TRANSMISSION CONTROL PROTOCOL (TCP) RATE CONTROL WITH LINK-LAYER
    ACKNOWLEDGEMENTS IN A WIRELESS POINT TO MULTI-POINT (PtMP) TRANSMISSION
    SYSTEM**
**PROCEDE DE COMMANDE DE VITESSE D'UN PROTOCOLE TCP AVEC ACCUSES DE RECEPTION
    DE COUCHE DE LIAISON DANS UN SYSTEME DE TRANSMISSION POINT A MULTIPOINT
    (PTMP) RADIO**
Patent Applicant/Assignee:
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    95762, US, US (Residence), US (Nationality)
Inventor(s):
  JORGENSEN Jacob W, 154 Black Powder Circle, Folsom, CA 95630, US,
Legal Representative:
  MARHOEFER Laurence J (et al) (agent), Venable, P.O. Box 34385,
    Washington, DC 20043-9998, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200108372 A2-A3 20010201 (WO 0108372)
  Application:         WO 2000US18584 20000707  (PCT/WO US0018584)
  Priority Application: US 99349477 19990709; US 99349480 19990709; US
    99350126 19990709; US 99350118 19990709; US 99347856 19990709; US
    99350150 19990709; US 99350156 19990709; US 99349476 19990709; US
    99350170 19990709; US 99349481 19990709; US 99350159 19990709; US
    99347857 19990709; US 99349475 19990709; US 99349483 19990709; US
    99349479 19990709; US 99350162 19990709; US 99349975 19990709; US
    99350173 19990709; US 99349482 19990709; US 99349478 19990709; US
    99349474 19990709
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
  GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
  MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
  UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04L-012/56
International Patent Class: H04L-012/28
Publication Language: English
Filing Language: English
Fulltext Availability:

Detailed Description
Claims
Fulltext Word Count: 46202

English Abstract
A method for modifying operation of a transmission control protocol (TCP) sliding window algorithm in a wireless point to multi-point (PtMP) transmission system. The method includes ensuring that transport of a packet over a wireless telecommunications link is occurring reliably; and modifying operation of a TCP sliding window algorithm if transport is not occurring reliably in order to control a TCP transmission rate. The ensuring step includes awaiting acknowledgement of wireless transmission of the packet at a link layer over the wireless link; and retransmitting at the link layer a lost one of the packets. The link layer can be a packet-centric QoS aware media access control (MAC) layer. The modifying step includes suppressing transmission of a TCP layer communication that would cause the TCP sliding window algorithm to modify the TCP transmission rate. The suppressing step can include preventing a source TCP from retransmitting the packet. The suppressing step can include avoiding modification of a source TCP layer and a destination TCP layer. The source and destination TCP layers can be unaware of operation modification. The suppressing can include intercepting retransmission requests between a destination TCP layer of a subscriber workstation coupled to a subscriber CPE station which is in wireless communication with a wireless base station, and a source TCP layer of a host workstation coupled to the wireless base station. The method can include detecting real congestion and permitting transmission of a TCP layer communication that would cause the TCP sliding window algorithm to modify the TCP transmission rate if real congestion is detected. Here, the detecting step can include determining from the link layer whether the wireless transmission of the packet was acknowledged.

French Abstract
L'invention concerne un procede visant a modifier le fonctionnement d'un algorithme a fenetre glissante d'un protocole TCP dans un systeme de transmission point a multipoint (PtMP) radio. Le procede consiste a s'assurer que le transport d'un paquet sur un relais de telecommunication s'effectue de maniere fiable, et a modifier le fonctionnement d'un algorithme a fenetre glissante TCP si le transport ne s'effectue pas de maniere fiable afin de commander la vitesse de transmission TCP. Cette etape comprend l'attente de l'accuse de reception de la transmission radio du paquet a une couche de liaison sur la liaison radio, et la retransmission a la couche de liaison d'un paquet perdu. La couche de liaison peut etre une couche de commande d'acces au support (MAC) de qualite de service paquet-centrique. L'etape de modification comprend la suppression de la transmission d'une communication de la couche TCP pouvant provoquer la modification de la vitesse de transmission TCP par l'algorithme a fenetre glissante TCP. L'etape de suppression consiste a empecher un TCP source de retransmettre le paquet, et a eviter la modification d'un TCP source et d'une couche TCP cible. Les couches TCP source et cible peuvent ne pas etre informees de la modification de fonctionnement. La suppression peut comprendre l'interception des demandes de retransmission entre une couche TCP cible de la station de travail d'un abonne couplee a une station CPE d'abonne en communication radio avec une station de base radio, et une couche TCP source d'une station de travail hote couplee a une station de base radio. Le procede consiste a detecter un encombrement reel et a permettre la transmission d'une communication de la couche TCP pouvant provoquer la modification de la vitesse de transmission TCP par l'algorithme a fenetre glissante TCP si un encombrement reel est detecte. L'etape de detection consiste a determiner a partir de la couche de liaison si la transmission radio du

paquet fait l'objet d'un accuse de reception.

Legal Status (Type, Date, Text)
Publication      20010201 A2 Without international search report and to be
                          republished upon receipt of that report.
Examination      20010726 Request for preliminary examination prior to end of
                          19th month from priority date
Search Rpt       20021219 Late publication of international search report
Republication    20021219 A3 With international search report.
Search Rpt       20021219 Late publication of international search report
Correction       20030530 Corrected version of Pamphlet: pages 1/41-41/41,
                          drawings, replaced by new pages 1/41-41/41
Republication    20030530 A3 With international search report.

Fulltext Availability:
  Detailed Description

Detailed Description
...  gateway 1706e and firewall to IP network layer 1708e and 1708d and
   then down through **encryption** layer 1706d, io PRIMMA **MAC** layer 1704d
   and down to **wireless** link to subscriber CPE 294d.

   Subscriber CPE 294d flows packet IP flows up from antenna 292d at
   physical **wireless** layer 1702c up through **MAC** layer 1704c, through
   **encryption** layer 1706c, through IP layers 1708 b and 1708c, then down
   through optional layer 1706b...satellite link, to antenna 290d of
   wireless base station 302 at wireless physical layer 1802d.
   **Wireless** base station 302 flows packet IP flows up from antenna 290d at
   physical **wireless** layer 1802d up through **MAC** layer 1804d, through
   IPsec layers 1806d and 1806d, !5 which can encapsulate packets and
   **encrypt** them. From lPsec layer 1806e, IP flows can flow - 146 down
   through WAN layer 1804e...


   **30/5,K/19      (Item 19 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00771574    **Image available**
**TDMA/TDD ACCESS METHOD FOR A WIRELESS TRANSMISSION SYSTEM**
**AMRT/DRT PROCEDE D'ACCES POUR UN SYSTEME DE TRANSMISSION SANS FIL**
Patent Applicant/Assignee:
  MALIBU NETWORKS INC, Suite 130, 1035 Suncast Lane, El Dorado Hills, CA
    95762, US, US (Residence), US (Nationality)
Inventor(s):
  JORGENSEN Jacob W, 154 Black Powder Circle, Folsom, CA 95630, US
Legal Representative:
  MARHOEFER Laurence J, Venable, P.O. Box 34385, Washington, DC 20043-9998,
    US
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200105100 A1 20010118 (WO 0105100)
  Application:         WO 2000US18666 20000707  (PCT/WO US0018666)
  Priority Application: US 99349477 19990709; US 99349480 19990709; US
    99350126 19990709; US 99350118 19990709; US 99347856 19990709; US
    99350150 19990709; US 99350156 19990709; US 99349476 19990709; US
    99350170 19990709; US 99349481 19990709; US 99350159 19990709; US
    99347857 19990709; US 99349475 19990709; US 99349483 19990709; US
    99349479 19990709; US 99350162 19990709; US 99349975 19990709; US
    99350173 19990709; US 99349482 19990709; US 99349478 19990709; US
    99349474 19990709

Designated States:
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prior to 2004)
  AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
  GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
  MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
  UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04L-012/28
International Patent Class: H04L-012/56; H04L-029/06
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 46658

English Abstract
  A time domain multiple access/time division duplex (TDMA/TDD) media
  access control (MAC) telecommunications access method which includes the
  steps of accessing one or more dynamically allocatable control packets
  for providing control information over a wireless medium between a
  wireless base station and one or more subscriber customer premises
  equipment (CPE) stations, and accessing one or more dynamically
  allocatable data packets for providing data information over a wireless
  medium between a wireless base station and one or more subscriber
  customer premises equipment (CPE) stations is disclosed. An aspect of the
  invention includes the steps of communicating a downstream
  acknowledgment, communicating a reservation request, communicating
  operations data, communicating an upstream acknowledgment slot,
  communicating an acknowledgment request slot, communicating a frame
  descriptor slot, and communicating a command and control slot.

French Abstract
  Un procede d'acces aux telecommunications a commande d'acces au support
  (MAC) a acces multiple par repartition dans le temps/duplex a repartition
  dans le temps (AMRT/DRT) comprend les etapes consistant a acceder a un ou
  a plusieurs paquets de commande affectables dynamiquement destines a
  fournir des informations de commande par un support sans fil entre une
  station de base sans fil et une ou plusieurs stations d'equipement prive
  d'abonnes (EPA), et a acceder a un ou a plusieurs paquets de donnees
  affectables dynamiquement destines a fournir des informations sur les
  donnees par un support sans fil entre une station de base sans fil et une
  ou plusieurs stations d'equipement prive d'abonnes (EPA). Un aspect de
  l'invention comprend les etapes de communication d'un accuse de reception
  aval, de communication d'une demande de reservation, de communication de
  donnees operationnelles, de communication d'un intervalle d'accuse de
  reception amont, de communication d'un intervalle de demande d'accuse de
  reception, de communication d'un intervalle de descripteur de trame et de
  communication d'un intervalle d'instruction et de commande.

Legal Status  (Type, Date, Text)
Publication    20010118 A1 With international search report.
Publication    20010118 A1 Before the expiration of the time limit for
                          amending the claims and to be republished in the
                          event of receipt of amendments.
Examination    20010503 Request for preliminary examination prior to end of
                          19th month from priority date

Fulltext Availability:
  Detailed Description
Detailed Description
...  gateway 1706e and firewall to IP network layer 1708e and 1708d and
    then down through **encryption** layer 1706d, PRIMMA **MAC** layer 1704d and
    down to **wireless** link to subscriber CPE 294d.

    Subscriber CPE 294d flows packet IP flows up from antenna 292d at
    physical **wireless** layer 1702c up through **MAC** layer 1704c, through
    **encryption** layer 1706c, through IP layers 1708 b and 1708c, then down
    through optional layer 1706b...

    ...satellite link, to antenna 290d of wireless base station 302 at wireless
    physical layer 1802d.

    **Wireless** base station 302 flows packet IP flows up from antenna 290d at
    physical – 147 **wireless** layer 1802d up through **MAC** layer 1804d,
    through lPsec layers 1806d and 1806d, which can encapsulate packets and
    **encrypt** them. From lPsec layer 1806e, IP flows can flow down through WAN
    layer 1804e and...


   **30/5,K/20      (Item 20 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00771573    **Image available**
**TCP/IP-CENTRIC QOS-AWARE ACCESS FRAME IN A WIRELESS TRANSMISSION SYSTEM**
**TRAME  DE  CONTROLE  DE  TRANSMISSION/PROTOCOLE INTERNET (TCP/IP)-CENTRIQUE**
    **DANS UN SYSTEME DE TRANSMISSION SANS FIL**
Patent Applicant/Assignee:
  MALIBU NETWORKS INC, Suite 130, 1035 Suncast Lane, El Dorado Hills, CA
    95762, US, US (Residence), US (Nationality)
Inventor(s):
  JORGENSEN Jacob W, 154 Black Powder Circle, Folsom, CA 95630, US,
Legal Representative:
  MARHOEFER Laurence J (et al) (agent), Venable, P.O. Box 34385,
    Washington, DC 20043-9998, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200105099 A1 20010118 (WO 0105099)
  Application:         WO 2000US18585 20000707  (PCT/WO US0018585)
  Priority Application: US 99349477 19990709; US 99349480 19990709; US
    99350126 19990709; US 99350118 19990709; US 99347856 19990709; US
    99350150 19990709; US 99350156 19990709; US 99349476 19990709; US
    99350170 19990709; US 99349481 19990709; US 99350159 19990709; US
    99347857 19990709; US 99349475 19990709; US 99349483 19990709; US
    99349479 19990709; US 99350162 19990709; US 99349975 19990709; US
    99350173 19990709; US 99349482 19990709; US 99349478 19990709; US
    99349474 19990709
Designated States:
(Protection type is "patent" unless otherwise stated – for applications
prior to 2004)
  AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
  GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
  MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
  UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

English Abstract
  A packet centric wireless point-to-multipoint (PtMP) telecommunications
  system is provided. The telecommunications system includes a wireless
  network that provides for true QoS. A media access control (MAC) layer is
  used in a packet-centric wireless point to multi-point (PtMP)
  telecommunications system, the telecommunication system includes a
  wireless base station coupled to a first data network, one or more host
  workstations coupled to the first data network, one or more subscriber
  customer premise equipment (CPE) stations in wireless communication with
  the wireless base station over a shared bandwidth using a packet-centric
  protocol, and one or more subscriber workstations coupled to each of the
  subscriber CPE stations over a second network. The MAC layer includes a
  resource allocation means that allocates shared bandwidth among the
  subscriber CPE stations to optimize end-user quality of service (QoS).


French Abstract
  L'invention concerne un systeme de telecommunications paquet-centrique
  point-a-multipoint sans fil. Le systeme de telecommunications comporte un
  reseau sans fil qui fournit une veritable qualite de service (QS).
  L'invention concerne egalement une couche de controle d'acces au support
  (MAC), utilisee dans ledit systeme. Ce dernier comporte une station de
  base sans fil couplee a un premier reseau de donnees, une ou plusieurs
  stations de travail hotes couples a ce premier reseau de donnees, une ou
  plusieurs stations d'installations d'abonnes (CPE) en communication sans
  fil avec la station de base sans fil sur une largeur de bande partagee,
  au moyen d'un protocole paquet-centrique, et une ou plusieurs stations de
  travail abonne couplees a chacune des stations CPE par un second reseau.
  La couche MAC comporte un dispositif d'allocation de ressources qui
  repartit la largeur de bande partagee entre les stations CPE abonne afin
  d'optimiser la qualite de service de l'utilisateur final (QoS).

Detailed Description
...  gateway 1706e and firewall to IP network layer 1708e and 1708d and
   then down through **encryption** layer 1706d, PRIMMA **MAC** layer 1704d and
   down to **wireless** link to subscriber CPE 294d.

   Subscriber CPE 294d flows packet IP flows up from antenna 292d at

physical **wireless** layer 1702c up through **MAC** layer 1704c. through
**encryption** layer 1706c, through IP layers 1708 b and 1708c, then down
through optional layer 1706b...

...satellite link. to antenna 290d of wireless base station 302 at wireless
physical layer 1802d.

 **Wireless** base station 302 flows packet IP flows up from antenna 290d at
physical - 149 **wireless** layer 1802d up through **MAC** layer 1804d,
through lPsec layers 1806d and 1806d, which can encapsulate packets and
**encrypt** them. From lPsec laver 1806e, IP flows can flow down through WAN
layer 1804e and...


 **30/5,K/21      (Item 21 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00771572    **Image available**
**TCP/IP PACKET-CENTRIC WIRELESS TRANSMISSION SYSTEM ARCHITECTURE**
**ARCHITECTURE  DE SYSTEME DE TRANSMISSION POINT A MULTIPOINT (PTMP) SANS FIL**
**   A BASE DE PAQUETS POUR PROTOCOLE TCP/IP**
Patent Applicant/Assignee:
  MALIBU NETWORKS INC, Suite 130, 1035 Suncast Lane, El Dorado Hills, CA
     95762, US, US (Residence), US (Nationality)
Inventor(s):
  JORGENSEN Jacob W, 154 Black Powder Circle, Folsom, CA 95630, US
Legal Representative:
  MARHOEFER Laurence J, Venable, P.O. Box 34385, Washington, DC 20043-9998,
     US
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200105098 A1 20010118 (WO 0105098)
  Application:         WO 2000US18531 20000707  (PCT/WO US0018531)
  Priority Application: US 99349477 19990709; US 99349480 19990709; US
     99350126 19990709; US 99350118 19990709; US 99347856 19990709; US
     99350150 19990709; US 99350156 19990709; US 99349476 19990709; US
     99350170 19990709; US 99349481 19990709; US 99350159 19990709; US
     99347857 19990709; US 99349475 19990709; US 99349483 19990709; US
     99349479 19990709; US 99350162 19990709; US 99349975 19990709; US
     99350173 19990709; US 99349482 19990709; US 99349478 19990709; US
     99349474 19990709
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
  GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
  MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
  UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04L-012/28
International Patent Class: H04L-012/56; H04L-029/06
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 59235

English Abstract
  A packet-centric wireless point to multi-point telecommunications system
  includes: a wireless base station communicating via a packet-centric
  protocol to a first data network; one or more host workstations
  communicating via the packet-centric protocol to the first data network;
  one or more subscriber customer premise equipment (CPE) stations coupled
  with the wireless base station over a shared bandwidth via the
  packet-centric protocol over a wireless medium; and one or more
  subscriber workstations coupled via the packet-centric protocol to each
  of the subscriber CPE stations over a second network. The packet-centric
  protocol can be transmission control protocol/internet protocol (TCP/IP).
  The packet-centric protocol can be a user datagram protocol/internet
  protocol (UDP/IP). The system can include a resource allocation means for
  allocating shared bandwidth among the subscriber CPE stations. The
  resource allocation is performed to optimize end-user quality of service
  (QoS).

French Abstract
  L'invention concerne un systeme de telecommunication point a multipoint
  sans fil a base de paquets comprenant une station de base sans fil
  communiquant par l'intermediaire d'un protocole a base de paquets avec un
  premier reseau de donnees, une ou plusieurs stations de travail hotes
  communiquant par l'intermediaire de ce protocole a base de paquets avec
  le premier reseau de donnees, une ou plusieurs stations d'equipement
  prive d'abonne (EPA) connectees a la station de base sans fil sur une
  largeur de bande partagee par l'intermediaire du protocole a base de
  paquets sur un support sans fil, et une ou plusieurs stations de travail
  d'abonne connectees a chacune des stations EPA sur un second reseau par
  l'intermediaire du protocole a base de paquets. Le protocole a base de
  paquets peut etre un protocole de controle de transmission (TCP) ou un
  protocole Internet (IP). Le protocole a base de paquets peut etre un
  protocole de datagramme utilisateur (UDP) ou un protocole Internet (IP).
  Le systeme peut comprendre un dispositif d'affectation de ressources
  destine a repartir une largeur de bande partagee entre les stations EPA.
  L'affectation de ressources sert a optimaliser la qualite de service pour
  un utilisateur final.

Detailed Description
...  gateway 1706e and firewall to IP network layer 1708e and 1708d and
  then down through **encryption** layer 1706d, PRIMMA **MAC** layer 1704d and
  down to **wireless** link to subscriber CPE 294d.

  Subscriber CPE 294d flows packet IP flows up from antenna 292d at
  physical **wireless** layer 1702c up through **MAC** layer 1704c, through
  **encryption** layer 1706c, through IP layers 1708 b and 1708c, then down
  through optional layer 1706b...satellite link, to antenna 290d of
  wireless base station 302 at wireless physical layer 1802d.

  **Wireless** base station 302 flows packet IP flows up from antenna 290d at
  physical **wireless** layer 1802d up through **MAC** layer 1804d, through
  IPsec layers 1806d and 1806d, which can encapsulate packets and **encrypt**

them. From IPsec layer 1806e, IP flows can flow 165 down through WAN
layer 1804e...


**30/5,K/22      (Item 22 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00530879    **Image available**
**METHOD AND APPARATUS FOR A DATA TRANSMISSION OF 100 MBPS IN A TERMINAL**
**PROCEDE  ET  APPAREIL  PERMETTANT  D'OBTENIR UNE VITESSE DE TRANSMISSION DE**
**DONNEES DE L'ORDRE DE MULTIPLES DE 100 MB/S DANS UN TERMINAL**
Patent Applicant/Assignee:
  WINNET MCS INC,
Inventor(s):
  TREADAWAY Kirk,
  HUEN Tat,
  LE NGOC Tho,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 9962231 A1 19991202
  Application:         WO 99US11137 19990520  (PCT/WO US9911137)
  Priority Application: US 9886459 19980522; US 98177751 19981023
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  NO AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Main International Patent Class: H04L-012/46
International Patent Class: H04B-007/24
Publication Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 19198

English Abstract
  A method and apparatus for a data transmission rate of multiples of 100
  mega-bits per second (Mbps) in a terminal for a wireless metropolitan
  area network. A terminal includes a first media access control unit (MAC)
  unit for receiving Fast Ethernet data packets at a rate of 100 Mbps for
  communication over a wireless link, n-1 additional MAC units for
  receiving Fast Ethernet data packets at a rate of 100 Mbps for
  communication over the wireless link, a multiplexer having n inputs,
  wherein each input is coupled to receive the data packets from a
  corresponding one of the MAC units and wherein the output of the
  multiplexer provides time-division multiplexed data, a packet formatting
  apparatus coupled to the output of the multiplexer for formatting the
  time division multiplexed data according to radio frames, and a wireless
  transceiver coupled to the packet formatting apparatus for communicating
  the radio frames over a wireless link wherein the wireless link has a
  maximum bandwidth capacity of at least n times 100 Mbps. Each MAC unit
  can include a rate control unit and a rate buffer for temporarily storing
  data packets received by the corresponding MAC unit prior to providing
  them to a corresponding one of the inputs of the multiplexer. Each MAC
  unit can include a corresponding layer-two or layer-three switch having a
  100 Mbps port. The maximum transmission rate is limited only by the
  bandwidth of the wireless link.

French Abstract
  L'invention concerne un procede et un appareil permettant d'obtenir une
  vitesse de transmission de donnees de l'ordre de multiples de 100 mb/s
  dans un terminal pour un reseau metropolitain sans fil. Un terminal

comporte une premiere unite de commande d'acces au support (MAC) pour
recevoir des paquets de donnees Ethernet Rapide a une vitesse de 100 Mb/s
pour communiquer via une liaison sans fil. Ce terminal comporte egalement
n-1 unites MAC supplementaires pour recevoir des paquets de donnees
Ethernet Rapide a une vitesse de 100 Mb/s pour communiquer via ladite
liaison sans fil. Ce terminal comporte egalement un multiplexeur pourvu
de n entrees, chaque entree etant couplee pour recevoir les paquets de
donnees d'une unite MAC correspondante et la sortie du multiplexeur
fournissant des donnees mulitplexees dans le temps. Ce terminal comporte
egalement un appareil de formatage de paquets couple a la sortie du
multiplexeur pour formater les donnees mulitplexees dans le temps en
fonction de trames radio. Ce terminal comporte enfin un
emetteur-recepteur sans fil couple a l'appareil de formatage de paquets
pour transmettre les trames radio via une liaison sans fil, celle-ci
ayant une capacite maximale de largeur de bande d'au moins n fois 100
Mb/s. Chaque unite MAC peut comporter une unite de commande de vitesse et
un tampon de vitesse pour memoriser provisoirement des paquets de donnees
recus par l'unite MAC correspondante avant de fournir ces paquets de
donnees a une sortie correspondante du multiplexeur. Chaque unite MAC
peut comporter un commutateur couche-deux ou couche-trois correspondant
qui comporte un port 100 Mb/s. La vitesse de transmission maximale n'est
limitee que par la largeur de bande de la liaison sans fil.

Fulltext Availability:
  Detailed Description

Detailed Description
...  provided to the second input of the multiplexer from the second rate
     buffers. The first  **MAC**  unit can include a first data  **encryption**
     apparatus coupled to the first data packet switch. The second  **MAC**  unit
     can include a second data  **encryption**  apparatus coupled to the second
     data packet switch.

     According to yet another aspect of the present invention, a terminal for
     a  **wireless**  link in a metropolitan area includes a first  **MAC**  unit for
     receiving Fast Ethernet data packets at a rate of 100 Mbps for
     communication over a  **wireless**  link, n-1 additional  **MAC**  units for
     receiving Fast Ethernet data packets at a rate of 100 Mbps for
     communication over the  **wireless**  link, a multiplexer having n inputs,
     wherein each input is coupled to receive the data...


 **30/5,K/23      (Item 23 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00530878     **Image available**
**ETHERNET SWITCH IN A TERMINAL FOR A WIRELESS METROPOLITAN AREA NETWORK**
**COMMUTATEUR ETHERNET DANS UN TERMINAL POUR RESEAU RADIO METROPOLITAIN**
Patent Applicant/Assignee:
  WINNET MCS INC,
Inventor(s):
  TREADAWAY Kirk,
  HUEN Tat,
  LE NGOC Tho,
Patent and Priority Information (Country, Number, Date):
  Patent:                WO 9962230 A1 19991202
  Application:           WO 99US11123 19990520  (PCT/WO US9911123)
  Priority Application: US 9886459 19980522; US 98218253 19981221
Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
    NO AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Main International Patent Class: H04L-012/46
International Patent Class: H04B-007/24
Publication Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 18977

English Abstract
  Method and apparatus for an Ethernet switch in a terminal for a wireless
metropolitan area network. In accordance with an aspect of the invention,
a terminal for a wireless link in a metropolitan area network includes a
network switch having a first port for receiving the data packets from a
computer network and a second port for forwarding the data packets; rate
buffers coupled to the network switch for receiving the data packets from
the second port; and a wireless transceiver coupled to the rate buffers
for receiving the data packets from the rate buffers and for
communicating the data packets over the wireless link. The data packets
can be Fast Ethernet data packets and the network switch can include a
100 mega-bits-per-second port for receiving the Fast Ethernet packets.
The terminal can include a packet buffer for storing the data packets
prior to storing the data packets in the rate buffer. The network switch
can be a layer-two switch. The network switch can store the data packets
in the packet buffer in response to a level of space available in the
rate buffer, in response to rain fade in the wireless link, in response
to interference in the wireless link, or in response to a detected bit
error rate for communication via the wireless link. The terminal can
include an extender device coupled to the broadcast device for receiving
the data packets from the computer network and for providing the data
packets to the broadcast device.

French Abstract
  La presente invention concerne un procede et un dispositif de
commutation Ethernet dans un terminal pour reseau radio metropolitain.
Selon un aspect de l'invention, un terminal pour liaison radio dans un
reseau metropolitain comprend les elements suivants : commutateur dote
d'un premier port destine a la reception de paquets de donnees en
provenance d'un ordinateur et d'un second port pour l'acheminement de ces
paquets de donnees ; tampons de debit couples au commutateur reseau et
recevant les paquets de donnees du second port ; et emetteur-recepteur
radio couple aux tampons de debit dont il recoit des paquets de donnees
pour les transmettre par radio. Ces paquets de donnees peuvent etre des
paquets de donnees Ethernet Rapide et le commutateur de reseau peut
inclure un port de 100 megabits/seconde pour la reception de ces paquets
de donnees. Le terminal peut comporter un tampon pour le stockage de
paquets de donnees avant de les stocker dans le tampon de debit. Le
commutateur reseau peut etre un commutateur de couche deux. Il peut
stocker les paquets de donnees dans le tampon pour paquets en reponse a
un volume d'espace disponible dans le tampon de debit, a un
affaiblissement du signal du a la pluie dans le reseau, a une
interference dans la liaison radio ou a un taux d'erreur sur les bits
detecte pour la communication via la liaison radio. Le terminal peut
comporter un dispositif d'extension couple au dispositif de diffusion
pour la reception de paquets de donnees a partir du reseau informatique
et pour la fourniture de paquets de donnees au dispositif de diffusion.

Fulltext Availability:
  Detailed Description

Detailed Description

... to the IOOBASE-T transceiver 212. Thus, latency-intolerant traffic will be transmitted via the **wireless** link 102 with minimal delay even during periods of rain fade or interference.

In addition, the embodiment of the **MAC** 222' illustrated in Fig. 16 includes an **encryption / decryption** block 612 coupled between the rate control logic 250' and the rate buffers 252'. Accordingly...

File 696:DIALOG Telecom. Newsletters 1995-2004/Aug 18
        (c) 2004 The Dialog Corp.
File    9:Business & Industry(R) Jul/1994-2004/Aug 18
        (c) 2004  The Gale Group
File   15:ABI/Inform(R) 1971-2004/Aug 18
        (c) 2004 ProQuest Info&Learning
File   98:General Sci Abs/Full-Text 1984-2004/Jul
        (c) 2004 The HW Wilson Co.
File  112:UBM Industry News 1998-2004/Jan 27
        (c) 2004 United Business Media
File  141:Readers Guide 1983-2004/Jul
        (c) 2004 The HW Wilson Co
File  484:Periodical Abs Plustext 1986-2004/Aug W2
        (c) 2004 ProQuest
File  608:KR/T Bus.News. 1992-2004/Aug 19
        (c)2004 Knight Ridder/Tribune Bus News
File  813:PR Newswire 1987-1999/Apr 30
        (c) 1999 PR Newswire Association Inc
File  613:PR Newswire 1999-2004/Aug 19
        (c) 2004 PR Newswire Association Inc
File  635:Business Dateline(R) 1985-2004/Aug 18
        (c) 2004 ProQuest Info&Learning


Set      Items    Description
S1      102258    MAC OR (MEDIA? ? OR MEDIUM? ? OR MEDIASPECIFIC OR MEDIUMSP-
                  ECIFIC)(1W)ACCESS??? ?(1W)(CONTROL??? ? OR CONTROLL??? ?)
S2       69367    CRYPTO OR CRYPTOGRAPH? OR CRYPTOSYSTEM? OR ENCRYPT? OR ENC-
                  IPHER? OR ENCYPHER?
S3       24001    DECRYPT? OR UNENCRYPT? OR UNENCIPHER? OR UNENCYPHER? OR DE-
                  CIPHER? OR DECYPHER? OR UNCRYPT? OR UNCYPHER? OR UNCIPHER?
S4     1993029    SECRET? OR SECURE? ? OR SECURING OR SECURITY?
S5      768309    WIRELESS? OR WIRE()LESS OR MOBILE OR LAPTOP? ? OR LAP()TOP?
                  ? OR TABLET
S6      245812    PORTAB? OR NOTEBOOK OR NOTE()BOOK OR NOTEPAD OR THINKPAD OR
                  (NOTE OR THINK)()PAD
S7      253070    IPAQ OR PDD OR PDDS OR HPC OR HPCS OR WINCE OR VISOR OR PDA
                  OR PDAS OR HANDSPRING OR PIM OR PIMS OR PALMPILOT OR PALMTOP
                  OR PALM OR NEWTON OR BLACKBERRY
S8        6615    (PEN OR STYLUS OR POCKET)(2W)(COMPUTER? ? OR DEVICE?)
S9       38176    POCKETPC OR PERSONAL()INFORMATION()MANAGER? OR PERSONAL()(-
                  DIGITAL OR DATA)()(ASSISTANT? ? OR ORGANI?ER? ?) OR CELLPHONE?
                  OR MOBILEPHONE? OR SCREENPHONE?
S10     270737    (RADIO OR SCREEN OR VIEW? OR SMART OR CELL OR CELLULAR OR -
                  MOBILE OR WIRELESS? OR WIRE()LESS?? ? OR FLIP OR DIGITAL)(1W)-
                  (TELEPHONE? OR PHONE? ? OR HANDSET? ? OR HAND()SET? ?)
S11      58190    RADIOPAGER? OR PAGER? OR PAGING(1W)(DEVICE? OR UNIT? ? OR -
                  APPARATUS? OR APP?? ? OR TERMINAL? OR APPLIANCE?)
S12      57210    RADIOPHONE? OR VIEWPHONE? OR SMARTPHONE? OR RADIOTELEPHONE?
S13         15    PERSONAL()DISPLAY?()(DEVICE? OR UNIT?? OR APPARATUS? OR AP-
                  P?? ? OR TERMINAL? OR APPLIANCE? OR CLIENT? ? OR PC OR PCS OR
                  COMPUTER? ?)
S14    1039900    SELFCONTAINED OR SELF()CONTAINED OR MOBILE OR PORTABLE OR -
                  WIRELESS? OR WIRE()LESS?? ? OR HANDHELD OR HAND()HELD OR POCK-
                  ET OR IR OR INFRARED
S15     175316    S14(2W)(CLIENT? ? OR PC OR PCS OR COMPUTER? ? OR DEVICE? OR
                  UNIT? ? OR APPARATUS?? OR APP?? ? OR ORGANI?ER? OR TERMINAL?
                  OR APPLIANCE?)
S16       7583    (VIDEO OR PICTURE OR MESSAGE OR CAMERA)(1W)(TELEPHONE? OR -
                  PHONE? ? OR HANDSET? ? OR HAND()SET? ?)
S17      54428    PALMSIZE? OR PALMHELD OR HANDY? ? OR FLIPPHONE? OR VIDEOPH-
                  ONE? OR PICTUREPHONE?

```
S18        612    S1(25N)S2:S3
S19       2631    S1(25N)S5
S20         99    S18(S)S19
S21         47    S18(S)(S6:S13 OR S15:S17)
S22        120    S20:S21
S23        109    S22/2001:2004
S24         11    S22 NOT S23
S25          8    RD (unique items)
?
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Set     Items    Description
S1         2     AU=DELLMO R?
S2       201     AU=BERGMAN J?
S3      1091     AU=HALL D?
S4     20254     MAC OR (MEDIA? ? OR MEDIUM? ? OR MEDIASPECIFIC OR MEDIUMSP-
                 ECIFIC)(1W)ACCESS??? ?(1W)(CONTROL??? ? OR CONTROLL??? ?)
S5         4     S1:S3 AND S4
```

**5/9/1     (Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.


014885212     **Image available**
WPI Acc No: 2002-705918/200276
XRPX Acc No: N02-556502
  **Secure wireless local area network device e.g. laptop computer has
  cryptography circuit which renders cryptographic information unusable by
  disconnecting battery from volatile memory, responsive to tampering**
Patent Assignee: HARRIS CORP (HARO  )
Inventor:  **BERGMAN J ;   DELLMO R ;   HALL D W**
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No     Kind   Date    Applicat No    Kind   Date    Week
US 20020095594  A1   20020718  US 2001761173   A    20010116  200276  B

Priority Applications (No Type Date): US 2001761173 A 20010116
Patent Details:
Patent No   Kind Lan Pg   Main IPC    Filing Notes
US 20020095594 A1     17 H04L-009/10

Abstract (Basic): US 20020095594 A1
        NOVELTY - A housing includes a cryptography circuit with a switch
    connected to a wireless transceiver, a **media     access     controller** .
    The switch disconnects battery from volatile memory rendering the
    cryptography information unusable, upon tampering the device.
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
    following:
        (1) Secure wireless local area network (LAN) system; and
        (2) Tamper resistant wireless local area network forming method.
        USE - Secure wireless local area network device such as laptop
    computer.
        ADVANTAGE - Provides greater security inexpensively with less
    complexity.
        DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of
    the laptop computer.
        pp; 17 DwgNo 2/13
Title Terms: SECURE; WIRELESS; LOCAL; AREA; NETWORK; DEVICE; COMPUTER;
  CIRCUIT; RENDER; CRYPTOGRAPHIC; INFORMATION; DISCONNECT; BATTERY;
  VOLATILE; MEMORY; RESPOND; TAMPER
Derwent Class: T01; W01
International Patent Class (Main): H04L-009/10
File Segment: EPI

Manual Codes (EPI/S-X): T01-M06A1A; W01-A05A; W01-A06B5A; W01-A06C4


5/9/2      (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

014815328     **Image available**
WPI Acc No: 2002-636034/200268
XRPX Acc No: N02-502533
  **Secure wireless local area network device has cryptography circuit which
  is connected to** medium    access    controller **and wireless transceiver
  for encrypting and decrypting address and data for communication**
Patent Assignee: HARRIS CORP (HARO  )
Inventor:  **BERGMAN J ;   DELLMO R ;   HALL D W**
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No      Kind    Date     Applicat No     Kind    Date      Week
US 20020094087  A1    20020718  US 2001760619    A    20010116  200268  B

Priority Applications (No Type Date): US 2001760619 A 20010116
Patent Details:
Patent No  Kind Lan Pg   Main IPC    Filing Notes
US 20020094087 A1    17 H04K-001/00

Abstract (Basic): US 20020094087 A1
       NOVELTY - A cryptography circuit (70) is connected to a wireless
    transceiver (50) and a **medium   access   controller** (60). The
    cryptography circuit encrypts/decrypts both address and the data
    information for transmission/reception.
       DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a
    secure wireless local area network provision method.
       USE - Secure wireless local area network (LAN) device.
       ADVANTAGE - Provides greater security without significant increase
    in cost and complexity, by using the cryptography circuit.
       DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of a
    secure wireless LAN device.
       Wireless transceiver (50)
       **Medium   access   controller** (60)
       Cryptography circuit (70)
       pp; 17 DwgNo 7/13
Title Terms: SECURE; WIRELESS; LOCAL; AREA; NETWORK; DEVICE; CIRCUIT;
  CONNECT; MEDIUM; ACCESS; CONTROL; WIRELESS; TRANSCEIVER; ADDRESS; DATA;
  COMMUNICATE
Derwent Class: T01; W01
International Patent Class (Main): H04K-001/00
File Segment: EPI
Manual Codes (EPI/S-X): T01-D01; T01-N02A2; W01-A05A; W01-A06B5A; W01-A06C4
  ; W01-A06E1

? t5/k/3-4

**5/K/3      (Item 1 from file: 349)**

Patent Applicant/Inventor:
...   Designated only for: US)
   **HALL David A ...**
Fulltext Availability:
  Detailed Description

Detailed Description
...   adapted to execute any of the
  well-known MS-DOS, PC-DOS, OS/2, UNIX,  **MAC** -OS, mainframe,
  minicomputer and Windows operating systems or other
  operating systems. General purpose computer 37...


**5/K/4      (Item 2 from file: 349)**

Inventor(s):
...   **HALL Douglas**
Fulltext Availability:
  Detailed Description

Detailed Description
...   damp equ h'00401 ;high damping size
  211
  212
  213 XhC gauge variables
  214 ------------------
  215  **mac**  aauae res 2 ;10 bit gauge position
  216 gauge-buffer res 2 ;gauge data buffer...FilenwLe: Dsp
  angle.gag
  Date C.':eated:7/18/97
  4 Description: Display angle through  **MAC**  gauge
  Inputs- datal(b3,b2) angle (12.4 format)
  8 Returns: none
  10 Modified: addrl,  **mac** -gauge
  Program Flow.
  14 ; ...Transfer 10 bits to driver chip
  16 ;

Set      Items      Description
S1       367103     MAC OR (MEDIA? ? OR MEDIUM? ? OR MEDIASPECIFIC OR MEDIUMSP-
                    ECIFIC)(1W)ACCESS??? ?(1W)(CONTROL??? ? OR CONTROLL??? ?)
S2       242623     CRYPTO OR CRYPTOGRAPH? OR CRYPTOSYSTEM? OR ENCRYPT? OR ENC-
                    IPHER? OR ENCYPHER?
S3        45532     DECRYPT? OR UNENCRYPT? OR UNENCIPHER? OR UNENCYPHER? OR DE-
                    CIPHER? OR DECYPHER? OR UNCRYPT? OR UNCYPHER? OR UNCIPHER?
S4       4522640    SECRET? OR SECURE? ? OR SECURING OR SECURITY?
S5       2418378    WIRELESS? OR WIRE()LESS OR MOBILE OR LAPTOP? ? OR LAP()TOP?
                    ? OR TABLET
S6       801426     PORTAB? OR NOTEBOOK OR NOTE()BOOK OR NOTEPAD OR THINKPAD OR
                    (NOTE OR THINK)()PAD
S7       617044     IPAQ OR PDD OR PDDS OR HPC OR HPCS OR WINCE OR VISOR OR PDA
                    OR PDAS OR HANDSPRING OR PIM OR PIMS OR PALMPILOT OR PALMTOP
                    OR PALM OR NEWTON OR BLACKBERRY
S8        25600     (PEN OR STYLUS OR POCKET)(2W)(COMPUTER? ? OR DEVICE?)
S9       117774     POCKETPC OR PERSONAL()INFORMATION()MANAGER? OR PERSONAL()(-
                    DIGITAL OR DATA)()(ASSISTANT? ? OR ORGANI?ER? ?) OR CELLPHONE?
                    OR MOBILEPHONE? OR SCREENPHONE?
S10      771622     (RADIO OR SCREEN OR VIEW? OR SMART OR CELL OR CELLULAR OR -
                    MOBILE OR WIRELESS? OR WIRE()LESS?? ? OR FLIP OR DIGITAL)(1W)-
                    (TELEPHONE? OR PHONE? ? OR HANDSET? ? OR HAND()SET? ?)
S11      139162     RADIOPAGER? OR PAGER? OR PAGING(1W)(DEVICE? OR UNIT? ? OR -
                    APPARATUS? OR APP?? ? OR TERMINAL? OR APPLIANCE?)
S12      106888     RADIOPHONE? OR VIEWPHONE? OR SMARTPHONE? OR RADIOTELEPHONE?
S13         72      PERSONAL()DISPLAY?()(DEVICE? OR UNIT?? OR APPARATUS? OR AP-
                    P?? ? OR TERMINAL? OR APPLIANCE? OR CLIENT? ? OR PC OR PCS OR
                    COMPUTER? ?)
S14      3053628    SELFCONTAINED OR SELF()CONTAINED OR MOBILE OR PORTABLE OR -
                    WIRELESS? OR WIRE()LESS?? ? OR HANDHELD OR HAND()HELD OR POCK-
                    ET OR IR OR INFRARED
S15      603620     S14(2W)(CLIENT? ? OR PC OR PCS OR COMPUTER? ? OR DEVICE? OR
                    UNIT? ? OR APPARATUS?? OR APP?? ? OR ORGANI?ER? OR TERMINAL?
                    OR APPLIANCE?)
S16       23269     (VIDEO OR PICTURE OR MESSAGE OR CAMERA)(1W)(TELEPHONE? OR -
                    PHONE? ? OR HANDSET? ? OR HAND()SET? ?)
S17      114747     PALMSIZE? OR PALMHELD OR HANDY? ? OR FLIPPHONE? OR VIDEOPH-
                    ONE? OR PICTUREPHONE?
S18       1405      S1(10N)S2:S3
S19       5898      S1(10N)S5

```
S20       105    S18(S)S19
S21        92    S18(S)(S6:S13 OR S15:S17)
S22       163    S20:S21
S23       140    S22/2001:2004
S24        23    S22 NOT S23
S25         7    RD (unique items)
S26      1805    S1(15N)S2:S3
S27      7791    S1(15N)S5
S28       207    S26(S)S27
S29       110    S26(S)(S6:S13 OR S15:S17)
S30       256    S28:S29
S31       209    S30/2001:2004
S32        24    S30 NOT (S31 OR S22)
S33        11    RD (unique items)
S34      2627    S1(25N)S2:S3
S35     11001    S1(25N)S5
S36       375    S34(S)S35
S37       164    S34(S)(S6:S13 OR S15:S17)
S38       451    S36:S37
S39       363    S38/2001:2004
S40        41    S38 NOT (S39 OR S22 OR S30)
S41        18    RD (unique items)
```

25/3,K/1      (Item 1 from file: 16)
DIALOG(R)File  16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

06951970    Supplier Number: 58729279  (USE FORMAT 7 FOR FULLTEXT)
**No Wires Needed Acquires** $5.5 Million in Venture Capital Funding.
Business Wire, p0290
Jan 20, 2000
Language: English    Record Type:   Fulltext
Document Type: Newswire; Trade
Word Count:    621

...      bit security architecture is the only solution in the industry that
does not require bothersome  **encryption**  key management. The Company also
has existing  **medium    access    controller**  ( **MAC** ) technology that enables
the next generation of  **wireless**  LAN products.
      In 1999, No Wires Needed enjoyed a ten-fold increase in revenue over
...


25/3,K/2      (Item 2 from file: 16)
DIALOG(R)File  16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

06279598    Supplier Number: 54414369  (USE FORMAT 7 FOR FULLTEXT)
**Wireless: New Low Cost, High Performance Wireless Bridge From Wave Wireless
   Networking.(Wave Wireless Networking' SPEEDLAN XE-2 wireless)(Product
   Announcement)**
EDGE: Work-Group Computing Report, pNA
April 12, 1999
Language: English    Record Type:   Fulltext
Article Type: Product Announcement
Document Type: Newsletter; Trade
Word Count:    450

   (USE FORMAT 7 FOR FULLTEXT)
TEXT:
...bridges but at a much lower cost. Unlike many products on the market
today, advanced  **MAC**  layer filtering, IP Routing, data  **encryption**  and
SNMP management are all included as standard features. SPEEDLAN XE-2
supports everything from...

...a Base Station, the XE-2 can support up to 16 remote locations. This
single,  **self – contained   unit**  can easily integrate into almost any
network environment in just one afternoon. The SPEEDLAN XE...


25/3,K/3      (Item 3 from file: 16)
DIALOG(R)File  16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

05832811    Supplier Number: 50343246  (USE FORMAT 7 FOR FULLTEXT)
**Protocol packs wireless voice, data**
Moy, T Dennis; Negus, Kevin J.
Electronic Engineering Times, n1029, p76
Oct 5, 1998
Language: English    Record Type:   Fulltext
Article Type: Article
Document Type: Magazine/Journal; Trade
Word Count:    1037

...      CA access mechanisms. This is derived from the IEEE 802-11.1997,
"IEEE Standard for **Wireless** LAN **Medium** **Access** **Control** and Physical
Layer Specification," that was approved in June 1997. The MAC protocol will
accommodate...

...24-bit network ID. In addition, uses can ensure data security with three
levels of **encryption** (none, medium, high).
     In operation, the **MAC** protocol uses a "superframe," which
incorporates two contention-free periods (CFPs) and a contention period...


 **25/3,K/7      (Item 1 from file: 160)**
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

02244540
**Business: Taurus Communications, Inc**
Satellite Communications   August, 1989   p. 36
ISSN: 0147-7439

     Scientific  Atlanta  has  sold  its  **mobile**  B- **MAC**   **encryption**  systems
to  Taurus  Communications.  The  purchase  leaves  Taurus with 4% of B-MAC
signal protection...

**33/3,K/2      (Item 1 from file: 16)**
DIALOG(R)File  16:Gale Group PROMT(R)

07571919     Supplier Number: 63494750   (USE FORMAT 7 FOR FULLTEXT)
**Buffalo Technology Launches AirStation; Affordable, Wi-Fi Compatible System**
  **Brings the Mobility, Speed and Security of Wireless Networking to the**
  **Masses.**
Business Wire, p2426
July 17, 2000
Language: English    Record Type:  Fulltext
Document Type: Newswire; Trade
Word Count:   532

...     throughout the AirStation network are protected. These features
include a highly secure DSSS modulation platform, **MAC** addressing that
"closes the door" to unregistered access, and a WEP 40-bit **wireless**
packet **encryption** process that secures the data without sacrificing
throughput speed.
       Standardized Networking Means Additional Flexibility
       To...


**33/3,K/3      (Item 2 from file: 16)**
DIALOG(R)File  16:Gale Group PROMT(R)

06834178     Supplier Number: 57817274   (USE FORMAT 7 FOR FULLTEXT)
**Lucent WaveLAN Turbo PC Card Leads the Way in Price, Features.(wireless LAN**
  **adapter)(Hardware Review)(Evaluation)**
Molta, Dave
Network Computing, p22
Nov 29, 1999
Language: English    Record Type:  Fulltext
Article Type: Evaluation
Document Type: Magazine/Journal; Trade
Word Count:   1054

...     configure specialized parameters using tabbed dialog boxes. I
easily enabled and disabled power management and **encryption** . On the
downside, Lucent makes it easy for users to change the adapter's **MAC** (
**Media   Access   Control** ) address, a feature I've never quite understood,
given that many **wireless** access points use **MAC** -address filtering for
security purposes.
       Lucent also provides client software that makes it relatively easy...


**33/3,K/4      (Item 3 from file: 16)**
DIALOG(R)File  16:Gale Group PROMT(R)

06254356     Supplier Number: 54296224   (USE FORMAT 7 FOR FULLTEXT)
**New Low Cost, High Performance Wireless Bridge From Wave Wireless**
  **Networking.**
Business Wire, p1253
April 6, 1999
Language: English    Record Type:  Fulltext
Document Type: Newswire; Trade
Word Count:   479

...      of up to 25 miles, SPEEDLAN XE-2 provides many features common to
more expensive **wireless** bridges but at a much lower cost. Unlike many
products on the market today, advanced **MAC** layer filtering, IP Routing,
data **encryption** and SNMP management are all included as standard
features.
     SPEEDLAN XE-2 supports everything from...


**33/3,K/6      (Item 1 from file: 148)**
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

07289525      SUPPLIER NUMBER: 16056664      (USE FORMAT 7 OR 9 FOR FULL TEXT)
**iTran offers OLTP front end. (online transaction processing) (Independence
  Technologies Inc.)(Brief Article) (Product Announcement)**
Staten, James
MacWEEK, v8, n25, p18(1)
June 20, 1994
DOCUMENT TYPE: Product Announcement      ISSN: 0892-8118      LANGUAGE:
  ENGLISH      RECORD TYPE: FULLTEXT
WORD COUNT:   201     LINE COUNT:   00016

...      basic banking functions, such as deposits and transfers, entered on
the Newton.
     iTran for the **Mac** will be delivered in late summer; the **Newton**
version will ship later this year. Data **encryption** capabilities will be
available on request. iTran costs about $200 per client, depending on
configuration...


**33/3,K/8      (Item 1 from file: 636)**
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

04760318      Supplier Number: 64435072   (USE FORMAT 7 FOR FULLTEXT)
**BUFFALO TECHNOLOGY LAUNCHES AIRSTATION WLAN SOLUTION.**
LAN Product News, v12, n9, pNA
Sept, 2000
Language: English      Record Type:   Fulltext
Document Type: Newsletter; Trade
Word Count:   525

...      throughout the AirStation network are protected. These features
include a highly secure DSSS modulation platform, **MAC** addressing that
"closes the door" to unregistered access, and a WEP 40-bit **wireless**
packet **encryption** process


**33/3,K/10      (Item 3 from file: 636)**
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

04535536      Supplier Number: 58672802   (USE FORMAT 7 FOR FULLTEXT)
**WAVE WIRELESS LAUNCHES SPEEDLAN WIRELESS PRODUCTS.(Product Announcement)**
LAN Product News, v12, n2, pNA
Feb, 2000
Language: English      Record Type:   Fulltext
Article Type: Product Announcement
Document Type: Newsletter; Trade
Word Count:   634

...      up to 25 miles, all Speedlan bridge/routers provide many features common to more expensive **wireless** bridges but at a much lower cost. Unlike many products on the market today, advanced **MAC** layer filtering, IP Routing, data **encryption** and SNMP management are all included as standard features.

Speedlan products are compatible with all...

?

41/3,K/1    (Item 1 from file: 16)
DIALOG(R)File  16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

08229390    Supplier Number: 68024926  (USE FORMAT 7 FOR FULLTEXT)
**INTERSIL INTROS ARM CHIPS FOR WIRELESS LAN.(Brief Article)(Product Announcement)**
Long, Mark
Microprocessor Report, v14, n11, p34
Nov, 2000
Language: English    Record Type:  Fulltext
Article Type: Brief Article; Product Announcement
Document Type: Newsletter; Trade
Word Count:   142


   (USE FORMAT 7 FOR FULLTEXT)
TEXT:
...ISL3856, an 802.11am ARM9-core-based chip that has been optimized for
use in **wireless** hubs and gateways. Intersil's ISL3856 **MAC** chip for
802.11b applications will also support mandatory data rates for 802.11a. In
addition, the ISL3856 supports 128-bit **encryption** as well as 10- and
100Mb/s data rates through the chip's onboard Ethernet...


   41/3,K/2    (Item 2 from file: 16)
DIALOG(R)File  16:Gale Group PROMT(R)
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07905510    Supplier Number: 66097535  (USE FORMAT 7 FOR FULLTEXT)
**Intersil Announces New PRISM ARM MAC Platforms For Wireless LAN Applications; Introduces new `Access Point-on-a-chip' that reduces cost through higher integration.**
Business Wire, p2206
Oct 16, 2000
Language: English    Record Type:  Fulltext
Document Type: Newswire; Trade
Word Count:   1039


...      11a offerings, which will include complete chipsets, firmware,
software, and radio reference designs.
     This newest **MAC** chip is based on the popular ARM9 core and is
optimized for use in Access Points, which are basically **wireless** hubs or
gateways that give users a **wireless** link to the network and Internet. The
new **MAC** can be used in 802.11b applications and will support mandatory
data rates for 802...

...first "Access Point-on-a-chip," implementing both the 802.11 MAC
protocol and the **MAC** bridging function. The ISL3856 includes an onboard
Ethernet interface that supports both 10 and 100 Mbps data rates. It also
supports 128-bit **encryption** , which offers the highest level of security
for transmitted data.
     Packaging, Availability and Pricing
     The...


   41/3,K/3    (Item 3 from file: 16)
DIALOG(R)File  16:Gale Group PROMT(R)
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07529505    Supplier Number: 63122663  (USE FORMAT 7 FOR FULLTEXT)

**3Com Introduces Industry's First Layer 3 Wireless LAN Security Solution.**
Business Wire, p0449
July 5, 2000
Language: English     Record Type: Fulltext
Document Type: Newswire; Trade
Word Count:    766


...     LAN. The AirConnect solution currently features Wired Equivalent
Privacy (WEP) -- a standards-based Layer 2 **encryption** technique that
secures data transmitted between **wireless**   access points and PCs -- as
well as access control using **wireless**  network card ( **MAC**   layer)
addresses. While WEP is adequate for smaller **wireless**   installations, it
is not sufficiently scaleable to meet the security needs of large corporate
networks...


   **41/3,K/4       (Item 4 from file: 16)**
DIALOG(R)File   16:Gale Group PROMT(R)
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06855890     Supplier Number: 58063231   (USE FORMAT 7 FOR FULLTEXT)
**Lesson 137: Wireless LANs (802.11b).(Technology Information)(Tutorial)**
Angel, Jonathan
Network, pNA
Dec 1, 1999
Language: English     Record Type:   Fulltext Abstract
Article Type: Tutorial
Document Type: Magazine/Journal; Trade
Word Count:    2023


...     allows for 40-bit encryption; some vendors of 802.11b equipment
offer optional 128-bit **encryption**  or plan to make it available as a
firmware upgrade. A few also sell **wireless**  NICs that have been
manufactured not only with a unique **MAC**   address but also with a unique
public/private key pair. Administrators can require that all...

...any mismatches. This way, an attacker can be prevented from breaking
into a network via **MAC**   address masquerading.
     CUTTING ACCESS COST
     While valuable for the infrastructure network, features such as
multiple ESSIDs, roaming, and 128-bit **encryption**  increase the cost of
hardware APs to around $1,000 each. Vendors such as Apple...


   **41/3,K/9       (Item 1 from file: 47)**
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.

04422477     SUPPLIER NUMBER: 17894849     (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Free to roam: wireless LANs. (includes related articles on highlights,
  Editors' Choice, wireless hardware, reading Suitability to Task ratings,
  infrared networks, benchmark tests)(overview of nine evaluations of
  wireless networks) (individual evaluation records searchable under "Free
  to Roam: Wireless LANs") (Hardware Review)(Evaluation)**
Boyle, Padraic R.
PC Magazine, v15, n4, p175(16)
Feb 20, 1996
DOCUMENT TYPE: Evaluation     ISSN: 0888-8507     LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT:   4695    LINE COUNT:  00380

...      Keep in mind, however, that most of the products have multiple
security features, including data **encryption** , data scrambling, and user
IDs.
      The IEEE committee has included both FHSS and DSSS techniques in its
draft of the 802.11 **wireless   media   access   control** ( **MAC** ) and
physical (PHY) specifications. Similar to other IEEE standards in place,
the 802.11 specification should help bring down the pricing of  **wireless**
LAN products by replacing proprietary solutions with mass produced standard
chip sets. Advanced Micro Devices recently introduced an 802.11 compatible
**media   access   controller** chip called the PCnet-Mobile for **wireless**
LAN **devices** . For those of you who can't wait for the standard to be
completed, nearly...


   **41/3,K/11      (Item 3 from file: 47)**
DIALOG(R)File  47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.

04034512     SUPPLIER NUMBER: 14803045     (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Wireless internetworking. (cellular digital packet data standard) (Network**
   **Edition: Lippis on Networking) (Column)**
Lippis, Nick
PC Magazine, v13, n1, pNE37(1)
Jan 11, 1994
DOCUMENT TYPE: Column       ISSN: 0888-8507      LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT:   819    LINE COUNT:   00061

...      will use the SubNetwork Dependent Convergence Protocol or SNDCP and
a data-link protocol called **Mobile** Data Link Protocol (MDLP), which will
give the user a direct connection to the router backbone. The MDLP uses
**MAC** frames and sequence control to provide error detection and recovery,
while the SNDCP provides segmentation, header compression, **encryption** ,
and authentication. The router network will provide key network attributes
such as address resolution, roaming...


   **41/3,K/12      (Item 1 from file: 148)**
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

12368269     SUPPLIER NUMBER: 62928476     (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Wireless LANs Explode With A Kaleidoscope Of Options.(News Briefs)**
Mannion, Patrick
Electronic Design, 48, 11, 71
May 29, 2000
ISSN: 0013-4872      LANGUAGE: English      RECORD TYPE: Fulltext
WORD COUNT:   5169    LINE COUNT:   00398

...      Equivalent Privacy (WEP) protocol and power save. WEP refers to how
the data frames are **encrypted** and offers a security option. To date,
failures have been restricted to select pairs, with the problem residing in
the **MAC** .
      "Another issue," says Froning, "and one that's not defined in the
standard, is the...
?

Set     Items    Description
S1      69649    MAC OR (MEDIA? ? OR MEDIUM? ? OR MEDIASPECIFIC OR MEDIUMSP-
           ECIFIC)(1W)ACCESS??? ?(1W)(CONTROL??? ? OR CONTROLL??? ?)
S2      73661    CRYPTO OR CRYPTOGRAPH? OR CRYPTOSYSTEM? OR ENCRYPT? OR ENC-
           IPHER? OR ENCYPHER?
S3      13852    DECRYPT? OR UNENCRYPT? OR UNENCIPHER? OR UNENCYPHER? OR DE-
           CIPHER? OR DECYPHER? OR UNCRYPT? OR UNCYPHER? OR UNCIPHER?
S4     1470146    SECRET? OR SECURE? ? OR SECURING OR SECURITY?
S5      749929    WIRELESS? OR WIRE()LESS OR MOBILE OR LAPTOP? ? OR LAP()TOP?
           ? OR TABLET
S6      194117    PORTAB? OR NOTEBOOK OR NOTE()BOOK OR NOTEPAD OR THINKPAD OR
           (NOTE OR THINK)()PAD
S7      166308    IPAQ OR PDD OR PDDS OR HPC OR HPCS OR WINCE OR VISOR OR PDA
           OR PDAS OR HANDSPRING OR PIM OR PIMS OR PALMPILOT OR PALMTOP
           OR PALM OR NEWTON OR BLACKBERRY
S8       4795    (PEN OR STYLUS OR POCKET)(2W)(COMPUTER? ? OR DEVICE?)
S9      17070    POCKETPC OR PERSONAL()INFORMATION()MANAGER? OR PERSONAL()(-
           DIGITAL OR DATA)()(ASSISTANT? ? OR ORGANI?ER? ?) OR CELLPHONE?
           OR MOBILEPHONE? OR SCREENPHONE?
S10     128060    (RADIO OR SCREEN OR VIEW? OR SMART OR CELL OR CELLULAR OR -
           MOBILE OR WIRELESS? OR WIRE()LESS?? ? OR FLIP OR DIGITAL)(1W)-
           (TELEPHONE? OR PHONE? ? OR HANDSET? ? OR HAND()SET? ?)

```
S11    10072   RADIOPAGER? OR PAGER? OR PAGING(1W)(DEVICE? OR UNIT? ? OR -
                 APPARATUS? OR APP?? ? OR TERMINAL? OR APPLIANCE?)
S12     3890   RADIOPHONE? OR VIEWPHONE? OR SMARTPHONE? OR RADIOTELEPHONE?
S13        8   PERSONAL()DISPLAY?()(DEVICE? OR UNIT?? OR APPARATUS? OR AP-
                 P?? ? OR TERMINAL? OR APPLIANCE? OR CLIENT? ? OR PC OR PCS OR
                 COMPUTER? ?)
S14  1989314   SELFCONTAINED OR SELF()CONTAINED OR MOBILE OR PORTABLE OR -
                 WIRELESS? OR WIRE()LESS?? ? OR HANDHELD OR HAND()HELD OR POCK-
                 ET OR IR OR INFRARED
S15    97234   S14(2W)(CLIENT? ? OR PC OR PCS OR COMPUTER? ? OR DEVICE? OR
                 UNIT? ? OR APPARATUS?? OR APP?? ? OR ORGANI?ER? OR TERMINAL?
                 OR APPLIANCE?)
S16     4571   (VIDEO OR PICTURE OR MESSAGE OR CAMERA)(1W)(TELEPHONE? OR -
                 PHONE? ? OR HANDSET? ? OR HAND()SET? ?)
S17    18461   PALMSIZE? OR PALMHELD OR HANDY? ? OR FLIPPHONE? OR VIDEOPH-
                 ONE? OR PICTUREPHONE?
S18      653   S1 AND S2:S3
S19     6572   S1 AND S5
S20       96   S18 AND S19
S21       41   S18 AND (S6:S13 OR S15:S17)
S22      108   S20:S21
S23       80   S22/2001:2004
S24       28   S22 NOT S23
S25       21   RD (unique items)
```

**25/7/1     (Item 1 from file: 6)**
DIALOG(R)File    6:NTIS
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2150814   NTIS Accession Number: PB2000-101445/XAB
  **Examensarbete: Autenticering av Noder i Mobila Paketradionaet (Thesis: Authentication of Nodes in Packet Radio Networks)**
  Johansson, L. G.
  Foersvarets Forskningsanstalt, Linkoeping (Sweden). Dept. of Command and Control Warfare Technology.
  Corp. Source Codes: 091338005
  Report No.: FOA-R-97-00497-503-SE
  May 1997   114p
  Languages: Swedish   Document Type: Thesis
  Journal Announcement: USGRDR0006
  Text in Swedish; summary in English. See also PB97-174684.
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  NTIS Prices: PC A07/MF A02
  Country of Publication: Sweden
  This master thesis covers the construction of a simulator for simulating authentication of nodes and packages in a **mobile** packet radio network. The network is dynamic and changes topology continously which implies special demands. To accomplish a solution which includes the authentication on a low level, a new model of reference for communication has been developed. This model is based on the TCP/IP and includes an authentication layer below the network layer. The authentication layer authenticates nodes with a Diffie-Hellman algorithm working on an algebraic group, defined by an elliptic curve. IP-packages are authenticated by a **MAC** based on sessionkeys and plaintext hashed by the md5-funktion. Each md5-sum is truncated to 32 bits due to the limited bandwidth. The simulator was implemented using the Maisie language which is a public domain software developed by a research group from UCLA. An evaluation of Maisie is included in the thesis. The result of this work is a simulator environment

with focus on the authentication model.


25/7/2       (Item 1 from file: 2)
DIALOG(R)File    2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7074958    INSPEC Abstract Number: B2001-12-6210L-095, C2001-12-5620L-018
  Title: **Advanced prototype platform for a** wireless **multimedia local area
network**
  Author(s): Tikkanen, K.; Hannikainen, M.; Hamalainen, T.; Saarinen, J.
  Author Affiliation: Dept. of Comput. Syst. Lab., Tampere Univ. of
Technol., Finland
  Conference Title: Signal Processing X Theories and Applications.
Proceedings of EUSIPCO 2000. Tenth European Signal Processing Conference
Part vol.4    p.2309-12 vol.4
  Editor(s): Gabbouj, M.; Kuosmanen, P.
  Publisher: Tampere Univ. Technology, Tampere, Finland
  Publication Date: 2000 Country of Publication: Finland    4 vol.
xvii+2556 pp.
  ISBN: 952 15 0443 9    Material Identity Number: XX-2001-01663
  Conference Title: Proceedings of 10th European Signal Processing
Conference
  Conference Date: 4-8 Sept. 2000    Conference Location: Tampere, Finland
  Language: English    Document Type: Conference Paper (PA)
  Treatment: Practical (P)
  Abstract: This paper presents an advanced version of a configurable
demonstrator platform developed for testing a new **wireless** local area
network called TUTWLAN. TUTWLAN is targeted for limited service areas with
stationary or **portable** **terminals** . Applications range from simple
**wireless** sensors to multimedia **laptops** . The network supports the
different quality of service (QoS) requirements of these applications. The
improved development platform has been designed because of the restrictions
discovered in the first prototype. The new platform provides a better
testing environment for developing **medium** **access** **control** ( **MAC** )
protocols for TUTWLAN and for designing embedded stand-alone applications.
Furthermore, various other designs can be tested, for example hardware
implementations of **encryption** algorithms. Both the new and the old
prototypes consist of a digital signal processor (DSP), external memory
modules for the DSP, and a field programmable gate array (FPGA) circuit.
The platform is connected to a radio module and can be attached to a host
computer using peripheral component interconnect (PCI) bus. Compared to the
original platform, the new prototype contains more memory, a faster and
larger FPGA, and a higher bit-rate radio.  (18 Refs)
  Subfile: B C
  Copyright 2001, IEE


25/7/3       (Item 2 from file: 2)
DIALOG(R)File    2:INSPEC
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6965067    INSPEC Abstract Number: B2001-08-6250B-004, C2001-08-5620W-025
  Title: **Global standardization efforts of BWA systems based on cable modem**
  Author(s): Arunachalam, A.
  Author Affiliation: Nortel Networks, Richardson, TX, USA
  Conference Title: 2000 IEEE Emerging Technologies Symposium on Broadband,
Wireless Internet Access. Digest of Papers (Cat. No.00EX414)    p.4 pp.
  Editor(s): Winson, P.
  Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2000   Country of Publication: USA     212 pp.
ISBN: 0 7803 6364 7     Material Identity Number: XX-2001-00702
Conference Title: 2000 IEEE Emerging Technologies Symposium on Broadband, Wireless Internet Access. Digest of Papers
Conference Sponsor: IEEE
Conference Date: 10-11 April 2000    Conference Location: Richardson, TX, USA
Language: English    Document Type: Conference Paper (PA)
Treatment: Theoretical (T)

Abstract:  Data-over-Cable Service Interface Specifications (DOCSIS) developed by Cable Labs has been adopted by the International Telecommunication Union (ITU) as a draft Recommendation in ITU-T and ITU-R. Nortel Networks has been spearheading the BWA standards efforts in ITU-R, ITU-T and in IEEE 802.16, that uses the cable modem specifications as a basis for **wireless** access systems in order to achieve economies of scale. The cable modem technical parameters for physical and **media access control** layers have been adapted to the **wireless** environment to support a bidirectional **wireless** access system for interactive services. This paper presents the BWA (broadband **wireless** acceas) physical and **media access control** ( **MAC** ) standardization efforts that are in progress in IEEE 802.16 in the 10-40 GHz band, with a focus on the LMDS (local multipoint distribution service) band in the U.S. Nortel Networks is leading the effort to standardize the DOCSIS based parameters for PHY/ **MAC** standardization in IEEE 802.16. The services that will be supported by BWA systems include fast Internet access (supporting both IP and ATM traffic), video and interactive television. The key features of this BWA system are multiple quality of service (QoS) support, dynamic service management, support of real-time services along with **cryptographic** authentication of the users for protection against theft of service. (7 Refs)
Subfile: B C
Copyright 2001, IEE


1 25/7/4      (Item 3 from file: 2)
DIALOG(R)File    2:INSPEC

6282112    INSPEC Abstract Number: B1999-08-6210L-035, C1999-08-5620L-014
**Title: Security design for a new** wireless **local area network TUTWLAN**

Author(s): Salli, K.-T.; Hamalainen, T.; Knuutila, J.; Saarinen, J.
Author Affiliation: Signal Process. Lab., Tampere Univ. of Technol., Finland
Conference Title: Ninth IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (Cat. No.98TH8361)    Part vol.3    p. 1540-4 vol.3
Publisher: IEEE, New York, NY, USA
Publication Date: 1998  Country of Publication: USA    3 vol. 1574 pp.
ISBN: 0 7803 4872 9     Material Identity Number: XX-1998-03095
U.S. Copyright Clearance Center Code: 0 7803 4872 9/98/$10.00
Conference Title: Proceedings of Ninth International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC'98)
Conference Sponsor: Worcester Polytech. Inst.; Nokia; Bell Atlantic Mobile; CWINS; Analog Devices; IEEE; IEEE Commun. Soc.; IEE; IEICE; GTE Lab
Conference Date: 8-11 Sept. 1998    Conference Location: Boston, MA, USA
Language: English    Document Type: Conference Paper (PA)
Treatment: Applications (A); New Developments (N); Practical (P)

Abstract:  This paper presents a security scheme for a **medium access control** protocol in a new **wireless** local area network TUTWLAN (Tampere University of Technology WLAN). The design objective has been to develop a security scheme that will be scalable for various needs and offer high

security for demanding applications. The designed security scheme provides both privacy of **wireless** data communications and the authenticity of communicating parties. Our authentication scheme allows also the communicating entities to establish a shared secret key for secure communication session. Data security schemes have also been introduced. There are three optional data security modes that offer flexible ciphering and data security level. (7 Refs)

Subfile: B C

**25/7/11** **(Item 2 from file: 34)**
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

06788706 Genuine Article#: BL01D Number of References: 3
**Title: Reinventing the travois:** Encryption / MAC **in 30 ROM bytes**
Author(s): Yuval G (REPRINT)
Corporate Source: MICROSOFT CORP,RES/REDMOND//WA/98052 (REPRINT)
, 1997, V1267, P205-209
ISSN: 0302-9743 Publication date: 19970000
Publisher: SPRINGER-VERLAG BERLIN, HEIDELBERGER PLATZ 3, W-1000 BERLIN 33,
    GERMANYLECTURE NOTES IN COMPUTER SCIENCE
Series: LECTURE NOTES IN COMPUTER SCIENCE
Language: English Document Type: ARTICLE

Abstract: Some people in the software industry are looking into
    home-control systems, much preferably without stringing new wires. This
    raises a simple issue: I have no more access to my power-lines than a
    thief has; and ditto (even more so)for **wireless** .

    Therefore, if we want the same security we now have by owning the
    wire, we need some kind of cryptologic authentication.

    The CPUs considered for this are quite underpowered (by today's
    standards): 8051 or similar[1], 1KB flash EPROM, 64 bytes RAM, 128
    bytes EEPROM, and a peak 1MHz instruction rate; that last figure is
    relatively very fast, since the wire is 10KBPS or less.

    In the classic study of access-control weaknesses, Ali Baba could
    replay the ''open'' message, using the authenticator ''simsim'' (or
    ''sesame''); since replay attacks were not blocked, it did not matter
    how strong the 40 thieves' **crypto** & authentication was on other
    fronts. We therefore have to use EEPROM to keep track of a serial
    number, and get rid of replayed ones.

    To add to the problem, messages (including the authenticator) had
    better be kept down to 8 bytes or so, to give them some decent chance
    to get through ail the line noise, with the wimpy power-supplies
    planned.


**25/7/12** **(Item 1 from file: 94)**
DIALOG(R)File 94:JICST-EPlus

04539820 JICST ACCESSION NUMBER: 00A0088567 FILE SEGMENT: JICST-E
**A Protection Method against Unauthorized Access and/or Address Spoofing for
    Open Network Access Systems.**
ISHIBASHI HAYATO (1); ABE KOTA (1); ONISHI KATSUMI (1); MATSUURA TOSHIO (1)
; YAMAI NARIYOSHI (2)
(1) Osaka City Univ.; (2) Okayama Univ.Compit. Center

ABSTRACT: Personal computers are getting much smaller and easier to carry
    about in these days. LAN sockets providing network accessibility for
    those **mobile   computers** are often set in public places like
    libraries, computer centers, and so on. However, it is difficult to
    prevent illegal access to networks in such cases. In this paper, we
    propose a protection method to cope with illegal access. Our method
    provides the following functions: (1) only valid users can access to
    the network, (2) preventing malicious users from invalid use of the
    network by IP and/or **MAC** address spoofing, and (3) no need for
    pre-registration of IP and/or **MAC** addresses. We have implemented this
    method as a system named LANA. The design and implementation of LANA
    are also discussed. (author abst.)

**25/7/13     (Item 2 from file: 94)**

IIZUKA MASATAKA (1); INOUE YASUHIKO (1); ICHIKAWA TAKEO (1); KUNO YUTAKA
    (1)
(1) Ntt Akusesusabisushisutemuken
ABSTRACT: Configurations and functions of the **MAC** layer for the
    Ethernet-based **wireless** access system for the 5-GHz-band are
    introduced. The **wireless** interface between a terminal and an access
    point in this system is based on the IEEE 802.11 standard which employs
    the CSMA/CA scheme as the access protocol. CSMA/CA offers a synchronous
    service with a polling procedure in addition to the contention-based
    asynchronous service. Furthermore, the various functions, such as
    association, handoff, and authentication, are provided through the **MAC**
     management entity. This paper overviews the **MAC** layer, protocols,
    control schemes and their characteristics. (author abst.)
?

| Set | Items | Description |
|---|---|---|
| S1 | 4110 | MAC OR (MEDIA? ? OR MEDIUM? ? OR MEDIASPECIFIC OR MEDIUMSP-ECIFIC)(1W)ACCESS??? ?(1W)(CONTROL??? ? OR CONTROLL??? ?) |
| S2 | 21446 | CRYPTO OR CRYPTOGRAPH? OR CRYPTOSYSTEM? OR ENCRYPT? OR ENC-IPHER? OR ENCYPHER? |
| S3 | 8453 | DECRYPT? OR UNENCRYPT? OR UNENCIPHER? OR UNENCYPHER? OR DE-CIPHER? OR DECYPHER? OR UNCRYPT? OR UNCYPHER? OR UNCIPHER? |
| S4 | 665289 | SECRET? OR SECURE? ? OR SECURING OR SECURITY? |
| S5 | 312562 | WIRELESS? OR WIRE()LESS OR MOBILE OR LAPTOP? ? OR LAP()TOP? ? OR TABLET |
| S6 | 200250 | PORTAB? OR NOTEBOOK OR NOTE()BOOK OR NOTEPAD OR THINKPAD OR (NOTE OR THINK)()PAD |
| S7 | 39572 | IPAQ OR PDD OR PDDS OR HPC OR HPCS OR WINCE OR VISOR OR PDA OR PDAS OR HANDSPRING OR PIM OR PIMS OR PALMPILOT OR PALMTOP OR PALM OR NEWTON OR BLACKBERRY |
| S8 | 8805 | (PEN OR STYLUS OR POCKET)(2W)(COMPUTER? ? OR DEVICE?) |
| S9 | 19301 | POCKETPC OR PERSONAL()INFORMATION()MANAGER? OR PERSONAL()(-DIGITAL OR DATA)()(ASSISTANT? ? OR ORGANI?ER? ?) OR CELLPHONE? OR MOBILEPHONE? OR SCREENPHONE? |
| S10 | 92343 | (RADIO OR SCREEN OR VIEW? OR SMART OR CELL OR CELLULAR OR -MOBILE OR WIRELESS? OR WIRE()LESS?? ? OR FLIP OR DIGITAL)(1W)-(TELEPHONE? OR PHONE? ? OR HANDSET? ? OR HAND()SET? ?) |
| S11 | 17378 | RADIOPAGER? OR PAGER? OR PAGING(1W)(DEVICE? OR UNIT? ? OR -APPARATUS? OR APP?? ? OR TERMINAL? OR APPLIANCE?) |
| S12 | 3352 | RADIOPHONE? OR VIEWPHONE? OR SMARTPHONE? OR RADIOTELEPHONE? |
| S13 | 18 | PERSONAL()DISPLAY?()(DEVICE? OR UNIT?? OR APPARATUS? OR AP-P?? ? OR TERMINAL? OR APPLIANCE? OR CLIENT? ? OR PC OR PCS OR COMPUTER? ?) |
| S14 | 640824 | SELFCONTAINED OR SELF()CONTAINED OR MOBILE OR PORTABLE OR -WIRELESS? OR WIRE()LESS?? ? OR HANDHELD OR HAND()HELD OR POCK-ET OR IR OR INFRARED |
| S15 | 148783 | S14(2W)(CLIENT? ? OR PC OR PCS OR COMPUTER? ? OR DEVICE? OR UNIT? ? OR APPARATUS?? OR APP?? ? OR ORGANI?ER? OR TERMINAL? OR APPLIANCE?) |
| S16 | 7431 | (VIDEO OR PICTURE OR MESSAGE OR CAMERA)(1W)(TELEPHONE? OR -PHONE? ? OR HANDSET? ? OR HAND()SET? ?) |
| S17 | 8530 | PALMSIZE? OR PALMHELD OR HANDY? ? OR FLIPPHONE? OR VIDEOPH-ONE? OR PICTUREPHONE? |
| S18 | 124 | S1 AND S2:S3 |
| S19 | 679 | S1 AND S5 |
| S20 | 22 | S18 AND S19 |
| S21 | 15 | S18 AND (S6:S13 OR S15:S17) |
| S22 | 26 | S20:S21 |
| S23 | 26 | IDPAT (sorted in duplicate/non-duplicate order) |
| S24 | 26 | IDPAT (primary/non-duplicate records only) |
| S25 | 23 | S24 NOT MESSAG?(1W)AUTHENTIC?(1W)CODE? ? |
| S26 | 52274 | IC='H04L-012/28':IC='H04L-012/288' |
| S27 | 18531 | MC='W01-A06B5A' |
| S28 | 8309 | IC='H04K-001' |
| S29 | 33673 | IC='H04L-009' |
| S30 | 7885 | MC='T01-D01' |
| S31 | 9115 | MC='T01-J12C' |
| S32 | 13258 | MC='W01-A05':MC='W01-A05A' |
| S33 | 12904 | MC='T01-M06A1A' |
| S34 | 7372 | MC='W01-A06C4' |
| S35 | 767 | S1 AND (S33:S34 OR S5:S13 OR S15:S17) |

```
S36        58    S35 AND (S2:S3 OR S28:S32)
S37        23    S36 AND S26:S27
S38        10    S37 NOT (S24 OR MESSAG?(1W)AUTHENTIC?(1W)CODE? ?)
S39        10    IDPAT (sorted in duplicate/non-duplicate order)
S40        10    IDPAT (primary/non-duplicate records only)
```

? t40/9/all

**40/9/1     (Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
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016010951    **Image available**
WPI Acc No: 2004-168802/200416
XRPX Acc No: N04-134743
   Mobile  ad-hoc network for intrusion detection system, has policing node
    to detect intrusions based upon integrity check values, which do not
    correspond with respective data packets
Patent Assignee: HARRIS CORP (HARO  )
Inventor: BILLHARTZ T J
Number of Countries: 100  Number of Patents: 002
Patent Family:
Patent No     Kind   Date     Applicat No    Kind   Date     Week
US 20040028016 A1   20040212  US 2002217017  A    20020812  200416  B
WO 200415541  A2   20040219  WO 2003US25066  A    20030811  200416

Priority Applications (No Type Date): US 2002217017 A 20020812
Patent Details:
Patent No  Kind Lan Pg   Main IPC     Filing Notes
US 20040028016 A1    22 H04Q-007/24
WO 200415541  A2 E     G06F-000/00
   Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
   CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
   IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
   OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM
   ZW
   Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
   GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ
   UG ZM ZW

Abstract (Basic): US 20040028016 A1
     NOVELTY - The network (10) has a policing node (13) to detect
   intrusions into **mobile**  ad-hoc network (MANET).Transmissions among
   nodes (11, 12) are monitored to detect transmissions during an
   unauthorized period. An intrusion alert is generated based upon
   detected transmissions during the unauthorized period. The policing
   node detects intrusions based upon integrity check values, which do not
   correspond with respective data packets.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an
   intrusion detection method for a MANET.
     USE - Used as intrusion detection system for those that focus on
   intrusion in the upper OSI network layer.
     ADVANTAGE - The network detects network intrusion even when a rogue
   node has an authorized network or **media    access    control**
   identification ( **MAC**  ID).
     DESCRIPTION OF DRAWING(S) - The drawing shows a schematic block
   diagram of a MANET.
     MANET (10)
     Nodes (11,12)
     Policing node (13)
     Rogue node (14)
     pp; 22 DwgNo 1/21
Title Terms: **MOBILE** ; NETWORK; INTRUDE; DETECT; SYSTEM; NODE; DETECT;
   BASED; INTEGRITY; CHECK; VALUE; CORRESPOND; RESPECTIVE; DATA; PACKET
Derwent Class: T01; W01
International Patent Class (Main): G06F-000/00; H04Q-007/24

International Patent Class (Additional): H04L-012/28
File Segment: EPI
Manual Codes (EPI/S-X): T01-H01C2; **T01-J12C** ; T01-N02B1; W01-A01A;
   W01-A03B; W01-A05B; W01-A06G2; W01-B05A


   **40/9/2      (Item 2 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015916086     **Image available**
WPI Acc No: 2004-073926/200408
XRPX Acc No: N04-059593
   **User's anonymity guaranteeing method in** wireless **local area network,**
   **involves randomly selecting temporary address as source address or**
   **destination address from temporary address set**
Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU  ); JANG K (JANG-I); LEE
   I (LEEI-I); PARK J (PARK-I)
Inventor: JANG K; LEE I; PARK J; JANG G H; LEE I S; PARK J A
Number of Countries: 035  Number of Patents: 005
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 1379029 | A1 | 20040107 | EP 2003254269 | A | 20030704 | 200408 | B |
| US 20040006642 | A1 | 20040108 | US 2003613023 | A | 20030707 | 200408 | |
| JP 2004040806 | A | 20040205 | JP 2003271436 | A | 20030707 | 200411 | |
| KR 2004004925 | A | 20040116 | KR 200239155 | A | 20020706 | 200434 | |
| CN 1489339 | A | 20040414 | CN 2003155034 | A | 20030706 | 200442 | |

Priority Applications (No Type Date): KR 200239155 A 20020706
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 1379029 | A1 | E | 14 | H04L-012/28 | |

   Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
   GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

| | | | | | |
|---|---|---|---|---|---|
| US 20040006642 | A1 | | | G06F-015/16 | |
| JP 2004040806 | A | | 11 | H04L-012/28 | |
| KR 2004004925 | A | | | H04L-012/22 | |
| CN 1489339 | A | | | H04L-012/28 | |

Abstract (Basic): EP 1379029 A1
      NOVELTY - The temporary address sets are created in **wireless**
   access node such that each set corresponds to unique **media    access**
   **control** ( **MAC** ) address of a **wireless    terminal** , and transmitted to
   corresponding **wireless    terminal** . A data packet transmission is
   performed between the **wireless    terminal** and the **wireless** access
   node by randomly selecting a temporary address from the address set as
   a source or destination address.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
   following:
      (1) a computer readable medium storing program for performing
   method of guaranteeing user's anonymity; and
      (2) a **wireless** local area network system.
      USE - For guaranteeing user's anonymity in **wireless** local area
   network.
      ADVANTAGE - The outflow of private information is prevented and the
   risk of attack by malicious user's is reduced, by using the temporary
   address which is randomly selected from the temporary address set.
      DESCRIPTION OF DRAWING(S) - The figure shows a flowchart describing
   a method of guaranteeing user's anonymity in a **wireless** LAN system.
      pp; 14 DwgNo 2/5

Title Terms: USER; GUARANTEE; METHOD; **WIRELESS** ; LOCAL; AREA; NETWORK;
  RANDOM; SELECT; TEMPORARY; ADDRESS; SOURCE; ADDRESS; DESTINATION; ADDRESS
  ; TEMPORARY; ADDRESS; SET
Derwent Class: T01; W01
International Patent Class (Main): G06F-015/16; H04L-012/22; **H04L-012/28**
International Patent Class (Additional): G06F-015/177; **H04L-009/00** ;
  H04L-012/24
File Segment: EPI
Manual Codes (EPI/S-X): T01-C03C; T01-N02A3B; T01-S03; W01-A03B;
  **W01-A06B5A** ; **W01-A06C4** ; W01-A06E1; W01-A06G2


  **40/9/3      (Item 3 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
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015838102      **Image available**
WPI Acc No: 2003-900306/200382
XRPX Acc No: N03-718703
  **Security control/attack detection method for** wireless **local area**
  **network used in hospital, involves accepting or denying service request**
  **from user based on verification of Internet protocol address of** wireless
  **station**
Patent Assignee: WU C (WUCC-I)
Inventor: WU C
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No       Kind    Date     Applicat No    Kind    Date      Week
US 20030200455  A1    20031023  US 2002126077   A     20020418  200382  B

Priority Applications (No Type Date): US 2002126077 A 20020418
Patent Details:
Patent No   Kind Lan Pg   Main IPC     Filing Notes
US 20030200455 A1       9 H04L-009/00

Abstract (Basic): US 20030200455 A1
      NOVELTY – A communication is established between a **wireless**
  station and a base station by a network management console (NMC), and
  Internet protocol (IP) address is provided to the **wireless** station.
  The IP address of all **wireless** station is received and compared with
  **media   access   control** ( **MAC** ) address by the NMC, such that the IP
  address of specified **wireless** station is determined. The computer
  name of the **wireless** station is checked with the legal name list by
  NMC, based on which the service request from the **wireless** station is
  accepted/denied.
      USE – For providing security control and detecting attack in
  **wireless** local area network (LAN) connected to **laptop** computer,
  **pocket   computer** and **notebook** computer provided in hospital, coffee
  shop, restaurant, airport, also acts as identity authentication for
  Radius server.
      ADVANTAGE – Provides user authentication effectively, thereby
  preventing service request from illegal user.
      DESCRIPTION OF DRAWING(S) – The figure shows the flowchart
  explaining the process of security control and attack detection in
  **wireless** local area network.
      pp; 9 DwgNo 4/4
Technology Focus:
      TECHNOLOGY FOCUS – INDUSTRIAL STANDARDS – The **wireless** station
  confirms to IEEE 802.11 standards.
Title Terms: SECURE; CONTROL; ATTACK; DETECT; METHOD; **WIRELESS** ; LOCAL;

AREA; NETWORK; HOSPITAL; ACCEPT; SERVICE; REQUEST; USER; BASED;
VERIFICATION; PROTOCOL; ADDRESS; **WIRELESS** ; STATION
Derwent Class: T01; W01
International Patent Class (Main): **H04L-009/00**
File Segment: EPI
Manual Codes (EPI/S-X): T01-N02A2A; T01-N02B1B; W01-A05B; **W01-A06B5A** ;
  **W01-A06C4** ; W01-A06E; W01-A06F2A


   **40/9/4      (Item 4 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015794085     **Image available**
WPI Acc No: 2003-856288/200380
XRPX Acc No: N03-683955
   Wireless   terminal **address information checking method in local area
   network, involves comparing Internet protocol address in relayed data
   packets with IP address associated with** media   access   controller
   **address of terminal**
Patent Assignee: NOKIA CORP (OYNO  )
Inventor: BUSH A; HAVERINEN H; RINNEMAA J; SMITH M; TAKAMAKI T; TUOMI J;
   TUOMINEN H; TAKAMAEKI T
Number of Countries: 102  Number of Patents: 004
Patent Family:
Patent No      Kind   Date     Applicat No     Kind   Date     Week
GB 2388498     A    20031112  GB 200210267    A    20020507  200380  B
WO 200396719   A1   20031120  WO 2003FI348    A    20030505  200403
AU 2003229811  A1   20031111  AU 2003229811   A    20030505  200442
US 20040148374 A1   20040729  US 2003427307   A    20030501  200450


Priority Applications (No Type Date): GB 200210267 A 20020507
Patent Details:
Patent No  Kind Lan Pg   Main IPC    Filing Notes
GB 2388498    A     28 H04L-012/28
WO 200396719  A1 E     H04Q-007/22
   Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
   CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
   IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
   OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU
   ZA ZM ZW
   Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
   GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ
   UG ZM ZW
AU 2003229811 A1       H04Q-007/22   Based on patent WO 200396719
US 20040148374 A1      G06F-015/173

Abstract (Basic): GB 2388498 A
      NOVELTY - The identification information such as **media   access
   controller** ( **MAC** ) address of **wireless   terminal** , is received after
   establishment of communication connection between the terminal and
   access point. The Internet protocol (IP) address of terminal is
   associated with **MAC** address. The data packets having IP address
   transceived between terminal and network, is compared with associated
   **MAC** address, to accept or discard packets.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
   following:
      (1) access point for setting communication connection;
      (2) computer program product for access point.
      USE - For ensuring address information of **wireless   terminal**

such as **portable** **computer** in communication network such as
**wireless** local area network (LAN).
ADVANTAGE - Authenticity and integrity of accounting are enhanced,
and checking confirmation of IP address is easily enhanced.
DESCRIPTION OF DRAWING(S) - The figure shows a flowchart explaining
the **wireless** **terminal** address checking process.
pp; 28 DwgNo 1/3
Technology Focus:
TECHNOLOGY FOCUS - INDUSTRIAL STANDARDS - The **wireless** conforms
to IEEE 802.1 standard.
Title Terms: **WIRELESS** ; TERMINAL; ADDRESS; INFORMATION; CHECK; METHOD;
LOCAL; AREA; NETWORK; COMPARE; PROTOCOL; ADDRESS; RELAY; DATA; PACKET; IP
; ADDRESS; ASSOCIATE; MEDIUM; ACCESS; CONTROL; ADDRESS; TERMINAL
Derwent Class: T01; W01
International Patent Class (Main): G06F-015/173; **H04L-012/28** ; H04Q-007/22
International Patent Class (Additional): **H04L-009/32** ; H04L-012/26;
H04L-012/56
File Segment: EPI
Manual Codes (EPI/S-X): T01-C03C; T01-N02B1B; T01-S03; W01-A03B; W01-A06C4X
; W01-A06E1; W01-A06G2


**40/9/5     (Item 5 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015734821     **Image available**
WPI Acc No: 2003-797021/200375
XRPX Acc No: N03-639373
**Client authentication apparatus in internet, stores internet protocol
address and** media   access   controller **address of registered client
and corresponding router in managed table**
Patent Assignee: HITACHI SHONAN DENSHI KK (HITA-N)
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|-----------|------|------|-------------|------|------|------|---|
| JP 2003303174 | A | 20031024 | JP 2002105166 | A | 20020408 | 200375 | B |

Priority Applications (No Type Date): JP 2002105166 A 20020408
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|-----|----------|--------------|
| JP 2003303174 | A | | 5 | G06F-015/00 | |

Abstract (Basic): JP 2003303174 A
NOVELTY - A managed table stores **media** **access** **control** ( **MAC** )
address of the router (20) and relationship between internet protocol
(IP) address and **MAC** address of registered client terminals (10). The
authentication apparatus checks the **MAC** address and the IP address of
the authentication requirement client and the corresponding router with
the registered information to authenticate the client for network
connection.
DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
terminal authentication method.
USE - For providing authentication to client terminals like
**personal** **digital** **assistant** ( **PDA** ), domestic appliance,
audio/video apparatus, electronic office equipment like computer and
printer to distribute musical, video information through internet,
intranet.
ADVANTAGE - Prevents the network access of users other than the
registered clients.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
the computer network. (Drawing includes non-English language text).
        client terminal (10)
        router (20)
        information server (31)
        management server (32)
        network (80)
        pp; 5 DwgNo 1/3
Title Terms: CLIENT; AUTHENTICITY; APPARATUS; STORAGE; PROTOCOL; ADDRESS;
    MEDIUM; ACCESS; CONTROL; ADDRESS; REGISTER; CLIENT; CORRESPOND; ROUTER;
    TABLE
Derwent Class: T01; W01
International Patent Class (Main): G06F-015/00
International Patent Class (Additional): **H04L-009/32 ; H04L-012/28**
File Segment: EPI
Manual Codes (EPI/S-X): T01-J; W01-A05B; W01-A06


**40/9/6      (Item 6 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.


015687496      **Image available**
WPI Acc No: 2003-749685/200371
XRPX Acc No: N03-600920
    **Access control method in  wireless  local area network, involves allowing
    user terminals to access  wireless  network, only if both user terminal
    authentication and user password authentication are approved**
Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU  ); LEE K (LEEK-I)
Inventor: LEE K; LEE G H
Number of Countries: 035  Number of Patents: 005
Patent Family:
| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| EP 1345386 | A2 | 20030917 | EP 2003250931 | A | 20030214 | 200371 | B |
| JP 2003289301 | A | 20031010 | JP 200335865 | A | 20030214 | 200375 | |
| CN 1445963 | A | 20031001 | CN 2003104447 | A | 20030214 | 200382 | |
| US 20030177350 | A1 | 20030918 | US 2003383729 | A | 20030310 | 200382 | |
| KR 2003075224 | A | 20030926 | KR 200214276 | A | 20020316 | 200409 | |


Priority Applications (No Type Date): KR 200214276 A 20020316
Patent Details:
| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| EP 1345386 | A2 | E | 10 | H04L-029/06 | |

    Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
    GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

| Patent No | Kind | Lan | Pg | Main IPC | |
|---|---|---|---|---|---|
| JP 2003289301 | A | | 8 | H04L-009/32 | |
| CN 1445963 | A | | | H04L-012/28 | |
| US 20030177350 | A1 | | | H04L-009/00 | |
| KR 2003075224 | A | | | H04L-009/32 | |


Abstract (Basic): EP 1345386 A2
        NOVELTY - The user terminals (100a,100b) requiring access to
    **wireless**  network, are authenticated at respective access points
    (120a,120b), using **media  access  control**  identifier ( **MAC** - ID). A
    user password received from each user terminal is authenticated by an
    authentication server (140). The user terminals are allowed to access
    the network only if both terminal and password authentications are
    approved.
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following:
        (1) password authentication client operation method;

(2) password authentication server operation method;
        (3) authentication client; and
        (4) computer readable recorded **medium** storing **access    control**
program.
        USE - For controlling user access to **wireless** local area networks
(WLANs).
        ADVANTAGE - Since network access is allowed only after approval of
both terminal and password authentications, improved security is
ensured.
        DESCRIPTION OF DRAWING(S) - The figure shows a schematic view
illustrating the network access control process.
         **MAC** protocol stacks (10a,10b)
        user terminals (110a,100b)
        access points (120a,120b)
        authentication server (140)
        portal (150)
        pp; 10 DwgNo 1/2
Technology Focus:
        TECHNOLOGY FOCUS - INDUSTRIAL STANDARDS - The **wireless** local area
    network operates according to IEEE802.11 standards.
Title Terms: ACCESS; CONTROL; METHOD; **WIRELESS** ; LOCAL; AREA; NETWORK;
    ALLOW; USER; TERMINAL; ACCESS; **WIRELESS** ; NETWORK; USER; TERMINAL;
    AUTHENTICITY; USER; PASSWORD; AUTHENTICITY; APPROVE
Derwent Class: T01; W01
International Patent Class (Main): **H04L-009/00** ; **H04L-009/32** ;
    **H04L-012/28** ; H04L-029/06
International Patent Class (Additional): G06F-015/00; **H04L-009/08** ;
    H04L-012/22; H04L-012/24
File Segment: EPI
Manual Codes (EPI/S-X): T01-N02B1B; T01-S03; W01-A05B; **W01-A06B5A** ;
    W01-A06E1A; W01-A07G


    **40/9/7      (Item 7 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015448877     **Image available**
WPI Acc No: 2003-511019/200348
    **Id certification method for certification offer and system thereof**
Patent Assignee: IP ONE INC (IPON-N)
Inventor: SO J U
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No      Kind    Date    Applicat No    Kind    Date      Week
KR 2003018219  A    20030306  KR 200151823    A    20010827  200348  B

Priority Applications (No Type Date): KR 200151823 A 20010827
Patent Details:
Patent No  Kind Lan Pg   Main IPC    Filing Notes
KR 2003018219 A      1 H04L-009/32

Abstract (Basic): KR 2003018219 A
        NOVELTY - An ID certification method for certification offer and
    system thereof is provided, which copes with a security easily and
    stably although the security is violated or a new user exists.
        DETAILED DESCRIPTION - An access point receives a certification
    packet generated by a terminal(S1100). The access point checks the
    received certification packet(S1200). If the certification packet is a
    login packet, an **MAC** address is extracted from the login packet and a

process that the extracted address is registered at a memory of the
access point is determined(s1310). If registration succeed, the access
point transfers an ACK packet to the terminal(S1316). If the
certification packet is a logoff packet, there is judged whether an
**MAC** address of the logoff packet is registered at a memory of the
access point(S1410). If not, the access point transfers an NAK packet
to the terminal(S1415). If so, the access point deletes an **MAC**
address of the terminal and transfers the ACK packet to the
terminal(S1411). If the certification packet is neither the login
packet nor the logoff packet, an **MAC** address of a general packet is
extracted and there is judged whether an extracted address is
registered at a memory of the access point(S1510). If not, the general
packet is discarded(S1516). If so, a **wireless** LAN service is
provided(S1511).
     pp; 1 DwgNo 1/10
Title Terms: ID; CERTIFY; METHOD; CERTIFY; OFFER; SYSTEM
Derwent Class: T01; W01
International Patent Class (Main): **H04L-009/32**
File Segment: EPI
Manual Codes (EPI/S-X): T01-N02B1B; W01-A03B; W01-A05B; **W01-A06B5A** ;
  W01-A06G2


  **40/9/8**    **(Item 8 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015250784    **Image available**
WPI Acc No: 2003-311710/200330
XRPX Acc No: N03-248168
  **Authentication in** wireless **LAN system, involves checking presence of**
  MAC **address of access point communicating with** mobile **station, for**
  **making public key authentication/re-authentication request to access**
  **points**
Patent Assignee: NEC CORP (NIDE  )
Inventor: SHIMIZU M
Number of Countries: 002  Number of Patents: 002
Patent Family:
Patent No    Kind  Date    Applicat No    Kind  Date    Week
US 20020196764  A1  20021226  US 2002177019  A  20020624  200330  B
JP 2003005641  A  20030108  JP 2001191559  A  20010625  200330

Priority Applications (No Type Date): JP 2001191559 A 20010625
Patent Details:
Patent No  Kind Lan Pg  Main IPC  Filing Notes
US 20020196764 A1  19 H04Q-007/24
JP 2003005641 A  13 G09C-001/00
Abstract (Basic): US 20020196764 A1
     NOVELTY - **Mobile** stations (2-1 - 2-k) retrieve an access point
(AP) (1) data management table held in it to check whether the **MAC**
address of an AP which the station intends to make communication with,
is present in the table. When the **MAC** address is not present in the
table, the **mobile** station makes a public key authentication request
to the AP, and if not makes a public key re-authentication request to
the AP.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for
authentication system.
     USE - For performing authentication in **wireless** LAN system.
     ADVANTAGE - Since the **mobile** station makes a public key
re-authentication request to an access point when **MAC** address of the

access point communicating with the station is not present in the data
management table, the illegal re-authentication request is prevented
thereby preventing unfair communication by illegal **mobile** station.
Hence the authentication procedure is simplified.
        DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
the authentication system in **wireless** LAN system.
        access point (1)
        **mobile** stations (2-1 - 2-k)
        pp; 19 DwgNo 1/11
Title Terms: AUTHENTICITY; **WIRELESS** ; LAN; SYSTEM; CHECK; PRESENCE; **MAC** ;
    ADDRESS; ACCESS; POINT; COMMUNICATE; **MOBILE** ; STATION; PUBLIC; KEY;
    AUTHENTICITY; AUTHENTICITY; REQUEST; ACCESS; POINT
Derwent Class: P85; T01; W01
International Patent Class (Main): G09C-001/00; H04Q-007/24
International Patent Class (Additional): **H04L-009/08** ; **H04L-012/28**
File Segment: EPI; EngPI
Manual Codes (EPI/S-X): T01-C03C; **T01-D01** ; T01-N02B1; W01-A03B; W01-A05B;
    W01-A06C4X; W01-A06E1; W01-A06G2


  **40/9/9       (Item 9 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

014497261     **Image available**
WPI Acc No: 2002-317964/200236
XRPX Acc No: N02-248972
    **User protocol for** wireless **local area network system, has primary LAN**
    **being connected to secondary LAN using user intervention by enabling**
    **V-AAA of secondary LAN to communicate with H-AAA of primary LAN**
Patent Assignee: ROKE MANOR RES LTD (ROKE-N)
Inventor: GALLAGHER M; HANCOCK R
Number of Countries: 027  Number of Patents: 004
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| GB 2366948 | A | 20020320 | GB 200022604 | A | 20000915 | 200236 | B |
| US 20020034298 | A1 | 20020321 | US 2001953369 | A | 20010917 | 200236 | |
| EP 1199843 | A2 | 20020424 | EP 2001203097 | A | 20010803 | 200242 | |
| GB 2366948 | B | 20040121 | GB 200022604 | A | 20000915 | 200413 | |

Priority Applications (No Type Date): GB 200022604 A 20000915
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| GB 2366948 | A | | 11 | H04L-012/28 | |
| US 20020034298 | A1 | | | H04L-009/32 | |
| EP 1199843 | A2 | E | 5 | H04L-012/28 | |

    Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
    LI LT LU LV MC MK NL PT RO SE SI TR
| GB 2366948 | B | | | H04L-012/28 | |

Abstract (Basic): GB 2366948 A
        NOVELTY - The subscribers (11,12) of the primary local area network
    (LAN) (1), communicate with operator of secondary LAN (4) regarding
    getting connected with each other using user intervention by enabling
    the visitor-authentication and authorization and accounting (V-AAA)
    server (6) of secondary LAN to communicate with Home-AAA server (2) of
    primary LAN. This linkage remains until the subscribers remain
    authorized by the operator.
        USE - User protocol for W-LAN systems.
        ADVANTAGE - The operator of the existing LAN can add new LAN sites

or new partner operators without modifying the externally and internally established relationships. The extent to which **wireless** LAN subscribers can roam, is regulated.
        DESCRIPTION OF DRAWING(S) - The figures show the schematic diagram of the LAN.
        Primary LAN (1)
        H-AAA server (2)
        Secondary LAN (4)
        V-AAA server (6)
        Subscribers (11,12)
        pp; 11 DwgNo 1a, 1b/1
Technology Focus:
        TECHNOLOGY FOCUS - INDUSTRIAL STANDARDS - The **MAC** addresses or
    other identifiers are stored by different W-LAN technologies such as
    IEEE 802.11 and Bluetooth.
Title Terms: USER; PROTOCOL; **WIRELESS** ; LOCAL; AREA; NETWORK; SYSTEM;
    PRIMARY; LAN; CONNECT; SECONDARY; LAN; USER; INTERVENING; ENABLE;
    SECONDARY; LAN; COMMUNICATE; PRIMARY; LAN
Derwent Class: W01
International Patent Class (Main): **H04L-009/32** ; **H04L-012/28**
International Patent Class (Additional): H04M-001/66
File Segment: EPI
Manual Codes (EPI/S-X): **W01-A06B5A** ; **W01-A06C4** ; W01-A06C4A; W01-A06E1;
    W01-A06F5; W01-A06G3


**40/9/10      (Item 10 from file: 347)**
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

07256493    **Image available**
APPROVAL METHOD AND SYSTEM OF **WIRELESS**    **TERMINAL**   IN   **WIRELESS**   NETWORK

ABSTRACT
PROBLEM TO BE SOLVED: To avoid illegal access by an illegal user and illegal use of a network resource without changing a packet format.

SOLUTION: A **wireless** **terminal** (2-6) transmits a request first. A base station 1 relays the request, takes out the **MAC** address of the transmission origin and transmits a packet for the approval of the terminal to an approval server 7. When the approval server 7 receives the **MAC** address, it transmits an encoded session key. Then, the base station 1 keeps the session key and transmits the packet of the response with the session key. The **wireless** **terminal** (2-6) keeps the session key and, hereinafter, calculates a CRC value according to a HASH value obtained by adding the session key to the header and payload of the **MAC** , and transmits the packet. When the base station 1 receives the packet, it compares the calculated CRC value according to the HASH value with the CRC value of the packet, and realizes approval for each packet.

? t25/9/1,7-18,23

**25/9/1      (Item 1 from file: 347)**
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

07991741     **Image available**
COMMUNICATION METHOD, BRIDGE DEVICE, AND TERMINAL DEVICE

PUB. NO.:      2004-104500  [JP 2004104500  A]
PUBLISHED:     April 02, 2004 (20040402)
INVENTOR(s):   SHIBUYA NAOHISA
               TAKI DAISUKE
               GOTO MASATAKA
               TAKAGI MASAHIRO
APPLICANT(s):  TOSHIBA CORP
APPL. NO.:     2002-264216  [JP 2002264216]
FILED:         September 10, 2002 (20020910)
INTL CLASS:    H04L-012/46; H04L-012/28

ABSTRACT
PROBLEM TO BE SOLVED: To make performable transmission between terminals through a bridge device for conducting a predetermined processing such as a new **encryption** function different from **encryption** functionality provided in a **wireless** LAN (Local Area Network).

SOLUTION: In a network where at least one of terminals 200 and 210 existing in a **wireless** LAN communicates through a first **MAC** ( **Media Access Control** ) bridge 310 of a **wireless** LAN base station, a second additional **MAC** bridge 100 for conducting a predetermined processing is connected to a wired LAN side of the first **MAC** bridge 310. The terminals 200 and 210 and the second bridge 100 transmit and receive each other by tunneling a frame encapsulated with attachment of a header in which a **MAC** frame is made as a destination mutually.

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**25/9/7      (Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

016348188    **Image available**
WPI Acc No: 2004-506283/200448
XRPX Acc No: N04-399974
   Interrupt level adjustment method in host system, involves adjusting
   interrupt moderation level of interrupt generating agent based on result
   of comparison of current system interrupt rate and threshold interrupt
   rate
Patent Assignee: INTEL CORP (ITLC  )
Inventor: CHIU C Y; CONNOR P L; DURHAM D M; GOVINDARAJAN P; GUMANOW G D;
   JACOBS J P; MANN E K; TRAN H T
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No       Kind    Date    Applicat No    Kind    Date    Week
US 20040123008  A1   20040624  US 2002326740   A    20021220  200448  B

Priority Applications (No Type Date): US 2002326740 A 20021220
Patent Details:

Abstract (Basic): US 20040123008 A1
        NOVELTY - The current system interrupt rate at a host system is
    determined by adding the interrupt rates from interrupt generating
    agents. The determined rate is compared with a threshold interrupt rate
    associated with the system. The interrupt moderation level at the agent
    is adjusted based on the comparison result.
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following:
        (1) interrupt level adjusting system;
        (2) host system; and
        (3) article of manufacture for adjusting interrupt level.
        USE - For adjusting level of interrupt generated by interrupt
    generating agents e.g. input/output (I/O) controller such as gigabit
    ethernet **media access controller** ( **MAC** ), timer, codec,
    **cryptographic** device, keyboard, mouse, disk controller, serial and
    parallel ports to printer, scanner, network controller, modem, network
    interface card (NIC), small computer system interface (SCSI) controller
    and display device, for indicating arrival of packet in host system
    (claimed) such as personal computer, workstation, main frame computer,
    server, **hand - held computer** , **palmtop computer** , **laptop**
    computer, network switch, router, telephony device, network appliance
    and **wireless device** .
        ADVANTAGE - The interrupt rate obtained from the interrupt
    generating agents of the host system is controlled by adjusting
    interrupt moderation level of the agents. Hence throughput and
    performance of host system is increased and interrupts are not delayed
    when additional moderation is unnecessary.
        DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram
    explaining the interrupt level adjustment method.
        pp; 12 DwgNo 3/4
Title Terms: INTERRUPT; LEVEL; ADJUST; METHOD; HOST; SYSTEM; ADJUST;
  INTERRUPT; MODERATE; LEVEL; INTERRUPT; GENERATE; AGENT; BASED; RESULT;
  COMPARE; CURRENT; SYSTEM; INTERRUPT; RATE; THRESHOLD; INTERRUPT; RATE
Derwent Class: T01
International Patent Class (Main): G06F-013/24
File Segment: EPI
Manual Codes (EPI/S-X): T01-H05B2; T01-S03

 **25/9/8      (Item 2 from file: 350)**

016262064     **Image available**
WPI Acc No: 2004-419958/200439
XRPX Acc No: N04-333380
  **Data packet transmission method for communication system, involves
  transmitting predetermined number of data packets of same connection less
  than or equal to maximum number of data packets**
Patent Assignee: PHILIPS INTELLECTUAL PROPERTY GMBH (PHIG  ); KONINK
  PHILIPS ELECTRONICS NV (PHIG  )
Inventor: HERRMANN C; NICKEL P
Number of Countries: 107  Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| WO 200443018 | A1 | 20040521 | WO 2003IB4987 | A | 20031107 | 200439 | B |
| DE 1020252535 | A1 | 20040527 | DE 12002052535 | A | 20021108 | 200439 | |

Priority Applications (No Type Date): DE 12002052535 A 20021108
Patent Details:
Patent No  Kind Lan Pg   Main IPC     Filing Notes
WO 200443018  A1 E   34 H04L-012/56
    Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
    CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL
    IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI
    NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG
    US UZ VC VN YU ZA ZM ZW
    Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR
    GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR
    TZ UG ZM ZW
DE 1020252535 A1          H04L-012/56

Abstract (Basic): WO 200443018 A1
        NOVELTY - Predetermined number of data packet of same connection
    less than or equal to maximum number of data packets are transmitted in
    one container from a transmitting station to a receiving station.
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following:
        (1) communication system for transmitting data packet;
        (2) data packet transmitting station; and
        (3) software program product for transmission of data packet.
        USE - For transmitting data packet in communication system
    (claimed) such as universal **mobile** telecommunication system (UMTS).
        ADVANTAGE - Improves data packet transmission in unacknowledged
    mode transmission system without changing radio link control protocol
    for unacknowledged mode data transmission. Reduces the cost of
    improving data packet transmission and enables to decode and **decrypt**
    data transmitted on the logical channel on the receiving side even when
    more than one **media access control** protocol data unit gets lost
    during transmission or decoding process.
        DESCRIPTION OF DRAWING(S) - The figure shows the schematic
    representation of the transmission of data packet in a single
    container.
        unacknowledged mode radio link control protocol data units (1-8)
        **media access control** layers (10,33)
        **media access control** service data units (11-18)
        containers (20,29)
        pp; 34 DwgNo 4/5
Title Terms: DATA; PACKET; TRANSMISSION; METHOD; COMMUNICATE; SYSTEM;
  TRANSMIT; PREDETERMINED; NUMBER; DATA; PACKET; CONNECT; LESS; EQUAL;
  MAXIMUM; NUMBER; DATA; PACKET
Derwent Class: T01; W01; W02
International Patent Class (Main): H04L-012/56
International Patent Class (Additional): H04L-009/06
File Segment: EPI
Manual Codes (EPI/S-X): T01-N02A3B; T01-S03; W01-A03B; W01-A06G2; W01-A07G;
  W01-B05A1A; W02-C03C1G


 25/9/9     (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

016206549    **Image available**
WPI Acc No: 2004-364435/200434
XRPX Acc No: N04-291505
  **Key generation method for data** encryption in wireless **local area
  network, involves combining intermediate value obtained by combining**

secret key and user specific medium access address, with predefined key
change information
Patent Assignee: NDOSA TECHNOLOGIES INC (NDOS-N)
Inventor: PARK Y H; SHIN J G; YOU K
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20040083362 | A1 | 20040429 | US 2002421123 | P | 20021023 | 200434 | B |
| | | | US 2003617642 | A | 20030711 | | |

Priority Applications (No Type Date): US 2002421123 P 20021023; US
  2003617642 A 20030711
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 20040083362 | A1 | | 15 | H04L-009/00 | Provisional application US 2002421123 |

Abstract (Basic): US 20040083362 A1
        NOVELTY - A secret key is selected and combined with a user
    specific **medium access control** ( **MAC** ) address to form an
    intermediate value. The intermediate value is combined with predefined
    key change information, and transformed to generate the secret keys.
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following:
        (1) data **encryption** method; and
        (2) computer program product for performing data **encryption**
    process.
        USE - For generating data **encryption** key in wired and **wireless**
    local area network (LAN).
        ADVANTAGE - The transmitted and received data packets are
    **encrypted / decrypted** efficiently. Thereby the overall **encryption**
    efficiency is improved, without the need to alter the data packet
    header.
        DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the
    **encryption / decryption** system.
        pp; 15 DwgNo 1/12
Technology Focus:
        TECHNOLOGY FOCUS - INDUSTRIAL STANDARDS - The secret key is defined
    in accordance with IEEE 802.11 standard.
Title Terms: KEY; GENERATE; METHOD; DATA; **ENCRYPTION** ; **WIRELESS** ; LOCAL;
  AREA; NETWORK; COMBINATION; INTERMEDIATE; VALUE; OBTAIN; COMBINATION;
  SECRET; KEY; USER; SPECIFIC; MEDIUM; ACCESS; ADDRESS; PREDEFINED; KEY;
  CHANGE; INFORMATION
Derwent Class: T01; W01
International Patent Class (Main): H04L-009/00
File Segment: EPI
Manual Codes (EPI/S-X): T01-D01; T01-N02A2; T01-S03; W01-A05A; W01-A06B5A;
  W01-A06C4


 25/9/10      (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

016175220     **Image available**
WPI Acc No: 2004-333107/200431
XRPX Acc No: N04-265911
   Wireless **network access point device for** wireless **local area network**
  **has management element that is physically spaced from control element,**
  **carries out network security function such as authentication function**
Patent Assignee: SYNAD TECHNOLOGIES LTD (SYNA-N)
Inventor: MORETON M J V

Number of Countries: 001   Number of Patents: 001
Patent Family:
Patent No      Kind   Date      Applicat No     Kind   Date      Week
GB 2394387      A    20040421   GB 200224096     A    20021016   200431   B

Priority Applications (No Type Date): GB 200224096 A 20021016
Patent Details:
Patent No   Kind Lan Pg   Main IPC     Filing Notes
GB 2394387    A      35  H04L-012/28

Abstract (Basic): GB 2394387 A
        NOVELTY - The communication processor has control element (56) that
    is arranged with the radio transceiver, is adapted to carry out data
    communication functions. The management element (50) physically spaced
    from the control element, carries out network security function such as
    authentication and data **encryption** functions.
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following:
        (1) **media  access  control** unit; and
        (2) **wireless** network operating method.
        USE - For security in **wireless** local area networks located in
    airports.
        ADVANTAGE - Manages the various frames between the base and
    receiver stations efficiently.
        DESCRIPTION OF DRAWING(S) - The figure shows the schematic view of
    **wireless** network access point device.
        pp; 35 DwgNo 8/8
Title Terms: **WIRELESS** ; NETWORK; ACCESS; POINT; DEVICE; **WIRELESS** ; LOCAL;
   AREA; NETWORK; MANAGEMENT; ELEMENT; PHYSICAL; SPACE; CONTROL; ELEMENT;
   CARRY; NETWORK; SECURE; FUNCTION; AUTHENTICITY; FUNCTION
Derwent Class: W01
International Patent Class (Main): H04L-012/28
International Patent Class (Additional): H04Q-007/24; H04Q-007/30
File Segment: EPI
Manual Codes (EPI/S-X): W01-A05; W01-A06B5A; W01-A06C4; W01-A06E


 **25/9/11      (Item 5 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

016172721      **Image available**
WPI Acc No: 2004-330608/200430
XRPX Acc No: N04-263786
   Wireless **communication system for utility services monitoring for
   homes, has nodes which comprise physical layer, virtual layer and
   application interface layer**
Patent Assignee: INPUT/OUTPUT INC (INPU-N)
Inventor: DART R P; RADCLIFFE K S
Number of Countries: 102   Number of Patents: 002
Patent Family:
Patent No       Kind   Date      Applicat No     Kind   Date      Week
WO 200434677     A2   20040422   WO 2003US31834   A    20031006   200430   B
US 20040121786   A1   20040624   US 2002416006    P    20021004   200442
                                 US 2003679858     A    20031006

Priority Applications (No Type Date): US 2002416006 P 20021004; US
    2003679858 A 20031006               (
Patent Details:
Patent No   Kind Lan Pg   Main IPC     Filing Notes

WO 200434677 A2 E 40 H04M-000/00
    Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
    CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
    IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
    OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU
    ZA ZM ZW
    Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
    GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ
    UG ZM ZW
US 20040121786 A1        H04B-007/00    Provisional application US 2002416006

Abstract (Basic): WO 200434677 A2
        NOVELTY - The **wireless** communication system has nodes which
    comprise physical layer, virtual layer and application interface layer
    (101). The physical layer has a protocol layer (103), a **media access
    control** ( **MAC** ) layer (105) and a hardware abstraction layer (107).
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following:
        (1) **wireless** communication method; and
        (2) **wireless** communication **apparatus** .
        USE - For gathering information such as seismic data, and for
    performing utility services monitoring for homes, businesses and
    municipalities, using wide area network (WAN).
        ADVANTAGE - Avoids collisions and reduces the load in the network
    due to ring flooding. Reduces the variance in degree of path
    overlapping, hence improves overall network performance. Ensures
    dynamic communication routing with optimization and load balancing.
    Ensures virtual communication connections. Increases communication
    security by strong data **encryption** . Reduces communication fault
    tolerance without loss of data.
        DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
    the **wireless** communication system.
        application interface layer (101)
        protocol layer (103)
        **media access control** layer (105)
        hardware abstraction layer (107)
        pp; 40 DwgNo 1/5
Title Terms: **WIRELESS** ; COMMUNICATE; SYSTEM; UTILISE; SERVICE; MONITOR;
    HOME; NODE; COMPRISE; PHYSICAL; LAYER; VIRTUAL; LAYER; APPLY; INTERFACE;
    LAYER
Derwent Class: S03; W01
International Patent Class (Main): H04B-007/00; H04M-000/00
File Segment: EPI
Manual Codes (EPI/S-X): S03-C01B; W01-A06B5A; W01-C05B3F; W01-C05B5C


    **25/9/12     (Item 6 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

016093742    **Image available**
WPI Acc No: 2004-251618/200424
XRPX Acc No: N04-199511
    **Broadcasting security management method in e.g. cable TV network,
    involves transmitting encoded frame containing** media access control
    **address from subscriber apparatus based on encoded vectors acquired from
    center apparatus**
Patent Assignee: HITACHI LTD (HITA  ); TSUSHIN HOSO KIKO (TSUS-N)
Number of Countries: 001  Number of Patents: 001
Patent Family:

Patent No      Kind   Date     Applicat No    Kind    Date      Week
JP 2004064326  A     20040226  JP 2002218448   A     20020726  200424   B

Priority Applications (No Type Date): JP 2002218448 A 20020726
Patent Details:
Patent No   Kind Lan Pg   Main IPC     Filing Notes
JP 2004064326 A      15  H04L-009/08

Abstract (Basic): JP 2004064326 A
        NOVELTY - The initial vector transmitted from a center apparatus
    (100) is encoded with a traffic key of subscriber apparatus (110). The
    encoded vector is added with a frame containing a **media   access
    control** ( **MAC** ) address from subscriber apparatus, to generate an
    encoded frame for the subscriber apparatus. The subscriber apparatus
    transmits a different encoded frame based on acquired vectors to the
    center apparatus.
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following:
        (1) network system for security maintenance; and
        (2) security maintenance program.
        USE - For maintaining broadcasting security in network system
    (claimed) e.g. cable TV network and **wireless** local area network
    (LAN).
        ADVANTAGE - By transmitting a different **encryption** frame
    containing the **MAC** address from the subscriber apparatus, the tapping
    on the network is prevented.
        DESCRIPTION OF DRAWING(S) - The figure shows an outline structure
    of network system.(Drawing includes non-English language text).
        center apparatus (100)
        key detection unit (102)
        key generation unit (103)
        decoding unit (104)
        initial vector generation unit (107)
        encoder (108)
        subscriber apparatus (110)
        pp; 15 DwgNo 1/7
Title Terms: BROADCAST; SECURE; MANAGEMENT; METHOD; CABLE; TELEVISION;
  NETWORK; TRANSMIT; ENCODE; FRAME; CONTAIN; MEDIUM; ACCESS; CONTROL;
  ADDRESS; SUBSCRIBER; APPARATUS; BASED; ENCODE; VECTOR; ACQUIRE; APPARATUS
Derwent Class: W01; W02
International Patent Class (Main): H04L-009/08
File Segment: EPI
Manual Codes (EPI/S-X): W01-A05A; W01-A06B5A; W01-A06C4; W02-F03A;
  W02-F05A1


   **25/9/13      (Item 7 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015747078     **Image available**
WPI Acc No: 2003-809279/200376
  **Method for managing** encryption **key in** wireless **LAN system**
Patent Assignee: KT CORP (KTKT-N)
Inventor: JUNG H Y; PARK D G
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No      Kind   Date     Applicat No    Kind    Date      Week
KR 2003050881  A     20030625  KR 200181419    A     20011219  200376   B

Priority Applications (No Type Date): KR 200181419 A 20011219

Patent Details:
Patent No   Kind Lan Pg   Main IPC      Filing Notes
KR 2003050881 A        1 H04L-009/08

Abstract (Basic): KR 2003050881 A
        NOVELTY - A method for managing an **encryption** key in a **wireless**
    LAN system is provided to implement the security function of a broad
    band **wireless** LAN by partially correcting the process related the WEP
    of the inner access point(AP) without having an additional key
    management server and also by utilizing the additional WEP key for each
    of the users without correcting the IEEE 802.11 protocol.
        DETAILED DESCRIPTION - A method for managing an **encryption** key in
    a **wireless** LAN system includes the steps of: storing the master key
    by the access point (AP), receiving the trial of connection from the
    subscriber's **wireless** station and creating a wired equivalent privacy
    (WEP) secret key (100) to the subscriber's **wireless** station by using
    the **media   access   control** ( **MAC** ) address of the subscriber's
    **wireless** station to be tried to connect and the stored master key.
        pp; 1 DwgNo 1/10
Title Terms: METHOD; MANAGE; **ENCRYPTION** ; KEY; **WIRELESS** ; LAN; SYSTEM
Derwent Class: T01; W01
International Patent Class (Main): H04L-009/08
File Segment: EPI
Manual Codes (EPI/S-X): T01-C03C; T01-D01; T01-N02B1; W01-A03B; W01-A05A;
  W01-A06B5A; W01-A06C4X; W01-A06G2


   **25/9/14      (Item 8 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015648241     **Image available**
WPI Acc No: 2003-710424/200367
XRPX Acc No: N03-568006
   **Storage** medium   access   control **method e.g. for magneto- optical
   disk, involves** enciphering / deciphering **data to be recorded in storage
   medium using key data, when key data flag is turned ON**
Patent Assignee: FUJITSU LTD (FUIT  )
Inventor: ANZAI I
Number of Countries: 032  Number of Patents: 003
Patent Family:
Patent No      Kind   Date     Applicat No    Kind   Date      Week
US 20030142822 A1    20030731  US 2002267078   A    20021008  200367   B
JP 2003223367  A     20030808  JP 200224236    A    20020131  200367
EP 1335364     A2    20030813  EP 2002256930   A    20021007  200367

Priority Applications (No Type Date): JP 200224236 A 20020131
Patent Details:
Patent No   Kind Lan Pg   Main IPC      Filing Notes
US 20030142822 A1      27 H04L-009/00
JP 2003223367 A        15 G06F-012/14
EP 1335364     A2 E       G11B-020/00
    Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
    GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20030142822 A1
        NOVELTY - A data key valid flag stored in a memory (7), is turned
    ON by a host unit (102), so as to validate the key data of a card held
    in a key data holding circuit (5). The data to be recorded in a storage
    medium is **enciphered / deciphered** using the key data, when the key

data flag is turned ON.
    DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
following:
    (1) storage apparatus; and
    (2) business method.
    USE - For controlling access to document information, image
information including movie, audio information, program information,
software information including games, personal information, business
information stored in storage medium e.g. magneto-optical disk used in
information processing apparatus e.g. personal computer, **portable**
telephone, still and/or digital camera and television.
    ADVANTAGE - The illegal or unauthorized copies cannot be created,
thereby security and copyright protection is enhanced.
    DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
the storage apparatus.
    **enciphering / deciphering** circuit (3)
    key data holding circuit (5)
    memory (7)
    host unit (102)
    pp; 27 DwgNo 1/20
Title Terms: STORAGE; MEDIUM; ACCESS; CONTROL; METHOD; MAGNETO; OPTICAL;
  DISC; **ENCIPHER** ; **DECIPHER** ; DATA; RECORD; STORAGE; MEDIUM; KEY; DATA;
  KEY; DATA; FLAG; TURN
Derwent Class: P85; T01
International Patent Class (Main): G06F-012/14; G11B-020/00; H04L-009/00
International Patent Class (Additional): G06F-001/00; G06F-003/06;
  G09C-001/00
File Segment: EPI; EngPI
Manual Codes (EPI/S-X): T01-F05E; T01-J12C


  **25/9/15**    **(Item 9 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

015544569    **Image available**
WPI Acc No: 2003-606725/200357
XRPX Acc No: N03-483748
  **Interconnecting device e.g. switching hub establishes communication in
  computer network by allowing personal computers to communicate in network
  based on received** media    access    control **address of computers**
Patent Assignee: ALLIED TERRACES KK (ALTE-N); SATO T (SATO-I)
Inventor: SATO T
Number of Countries: 002  Number of Patents: 002
Patent Family:
Patent No    Kind    Date    Applicat No    Kind    Date    Week
US 20030101340  A1    20030529  US 200263007    A    20020312  200357  B
JP 2003163688  A    20030606  JP 2001360467    A    20011127  200357

Priority Applications (No Type Date): JP 2001360467 A 20011127
Patent Details:
Patent No  Kind Lan Pg    Main IPC    Filing Notes
US 20030101340 A1    17 H04L-009/00
JP 2003163688 A    13 H04L-012/56

Abstract (Basic): US 20030101340 A1
    NOVELTY - The receivers in the interconnecting devices (10a,10b)
receive the **media**    **access**    **control** ( **MAC** ) address as an identifier
of personal computers (30a-30c) from respective **wireless**
communication **devices** (40a-40c). The interconnecting devices

establishes communication in computer network (100) by allowing the personal computers to communicate in the network based on the received **MAC** address.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) computer readable medium storing communication setting program; and

(2) communication setting method.

USE - Interconnecting device such as switching hub for communication with **wireless** communication **devices** such as short distance **wireless** communication such as infrared radiation data communication such as IrDA and Bluetooth through computer network.

ADVANTAGE - Prevents unauthorized access to computer networks using the **MAC** address as device identifiers, thereby establishes communication with the interconnecting devices at high security and reliability. Since encoded and **encrypted** device identifiers are used, the disclosure of identifiers in **wireless** **devices** are prevented. Also since the bandwidth of the interconnecting device is increased, efficient communication is performed in the computer network.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the computer network.

interconnecting devices (10a,10b)

personal computer (30a-30c)

**wireless** communication **devices** (40a-40c)

computer network (100)

pp; 17 DwgNo 1/7

Title Terms: INTERCONNECT; DEVICE; SWITCH; HUB; ESTABLISH; COMMUNICATE; COMPUTER; NETWORK; ALLOW; PERSON; COMPUTER; COMMUNICATE; NETWORK; BASED; RECEIVE; MEDIUM; ACCESS; CONTROL; ADDRESS; COMPUTER

Derwent Class: T01; W01

International Patent Class (Main): H04L-009/00; H04L-012/56

International Patent Class (Additional): H04L-012/28; H04L-012/44

File Segment: EPI

Manual Codes (EPI/S-X): T01-N02A3B; T01-S03; W01-A06B5A; W01-A06C3; W01-A06C4A; W01-A06E1; W01-A06G5A


**25/9/16      (Item 10 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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015199192     **Image available**

WPI Acc No: 2003-259726/200326

XRPX Acc No: N03-205912

Encrypting **and** decrypting **information in e.g.** wireless **communication system using e.g. layer-2** MAC **identity to form transmission** encryption **key**

Patent Assignee: MOTOROLA INC (MOTI  )

Inventor: CHATER-LEA D J; SHAHAF M

Number of Countries: 101  Number of Patents: 003

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|-----------|------|------|-------------|------|------|------|---|
| GB 2379588 | A | 20030312 | GB 200121979 | A | 20010911 | 200326 | B |
| WO 200324140 | A2 | 20030320 | WO 2002GB4138 | A | 20020911 | 200330 | |
| EP 1428403 | A2 | 20040616 | EP 2002767632 | A | 20020911 | 200439 | |
| | | | WO 2002GB4138 | A | 20020911 | | |

Priority Applications (No Type Date): GB 200121979 A 20010911

Patent Details:

Patent No  Kind Lan Pg   Main IPC    Filing Notes

GB 2379588    A     37 H04L-009/00
WO 200324140   A2 E      H04Q-007/38
   Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
   CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
   IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
   OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU
   ZA ZM ZW
   Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
   GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW
EP 1428403    A2 E      H04Q-007/38   Based on patent WO 200324140
   Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
   GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): GB 2379588 A
      NOVELTY - Involves combining an individual identifier, e.g. layer-2
   **MAC** identity, related to transmission sender with a shared key to
   form a transmission **encryption** key. The key is then used to **encrypt**
   the transmission.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for a
   communications system and unit.
      USE - For **wireless** communications e.g. in **cellular** **telephone**
   network or private **mobile** network or alternatively in IP data network
   where layer-3 source ID of packet is used as key modifier.
      ADVANTAGE - Does not require large numbers of shared keys to be
   simultaneously managed.
      DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of
   the system used to implement the method.
      pp; 37 DwgNo 5/5
Title Terms: INFORMATION; **WIRELESS** ; COMMUNICATE; SYSTEM; LAYER; **MAC** ;
   IDENTIFY; FORM; TRANSMISSION; **ENCRYPTION** ; KEY
Derwent Class: T01; W01
International Patent Class (Main): H04L-009/00; H04Q-007/38
International Patent Class (Additional): H04L-009/14; H04L-029/06
File Segment: EPI
Manual Codes (EPI/S-X): T01-D01; T01-N02B1; W01-A05A; W01-A07G; W01-B05A1


 **25/9/17     (Item 11 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004  Thomson Derwent. All rts. reserv.

014885212    **Image available**
WPI Acc No: 2002-705918/200276
XRPX Acc No: N02-556502
   **Secure** wireless **local area network device e.g.** laptop **computer has**
   cryptography **circuit which renders** cryptographic **information unusable**
   **by disconnecting battery from volatile memory, responsive to tampering**
Patent Assignee: HARRIS CORP (HARO  )
Inventor: BERGMAN J; DELLMO R; HALL D W
Number of Countries: 001  Number of Patents: 001
Patent Family:
Patent No      Kind   Date    Applicat No    Kind    Date     Week
US 20020095594  A1   20020718  US 2001761173   A    20010116  200276  B

Priority Applications (No Type Date): US 2001761173 A 20010116
Patent Details:
Patent No  Kind Lan Pg   Main IPC     Filing Notes
US 20020095594 A1     17 H04L-009/10

Abstract (Basic): US 20020095594 A1

NOVELTY - A housing includes a **cryptography** circuit with a switch connected to a **wireless** transceiver, a **media access controller** . The switch disconnects battery from volatile memory rendering the **cryptography** information unusable, upon tampering the device.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) Secure **wireless** local area network (LAN) system; and

(2) Tamper resistant **wireless** local area network forming method.

USE - Secure **wireless** local area network device such as **laptop** computer.

ADVANTAGE - Provides greater security inexpensively with less complexity.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the **laptop** computer.

pp; 17 DwgNo 2/13

Title Terms: SECURE; **WIRELESS** ; LOCAL; AREA; NETWORK; DEVICE; COMPUTER; CIRCUIT; RENDER; **CRYPTOGRAPHIC** ; INFORMATION; DISCONNECT; BATTERY; VOLATILE; MEMORY; RESPOND; TAMPER

Derwent Class: T01; W01

International Patent Class (Main): H04L-009/10

File Segment: EPI

Manual Codes (EPI/S-X): T01-M06A1A; W01-A05A; W01-A06B5A; W01-A06C4


**25/9/18      (Item 12 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004   Thomson Derwent. All rts. reserv.

014815328      **Image available**

WPI Acc No: 2002-636034/200268

XRPX Acc No: N02-502533

**Secure** wireless **local area network device has** cryptography **circuit which is connected to** medium access controller **and** wireless **transceiver for** encrypting **and** decrypting **address and data for communication**

Patent Assignee: HARRIS CORP (HARO   )

Inventor: BERGMAN J; DELLMO R; HALL D W

Number of Countries: 001   Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 20020094087 | A1 | 20020718 | US 2001760619 | A | 20010116 | 200268 | B |

Priority Applications (No Type Date): US 2001760619 A 20010116

Patent Details:

| Patent No | Kind Lan Pg | Main IPC | Filing Notes |
|---|---|---|---|
| US 20020094087 A1 | 17 | H04K-001/00 | |

Abstract (Basic): US 20020094087 A1

NOVELTY - A **cryptography** circuit (70) is connected to a **wireless** transceiver (50) and a **medium access controller** (60). The **cryptography** circuit **encrypts / decrypts** both address and the data information for transmission/reception.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a secure **wireless** local area network provision method.

USE - Secure **wireless** local area network (LAN) device.

ADVANTAGE - Provides greater security without significant increase in cost and complexity, by using the **cryptography** circuit.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of a secure **wireless** LAN **device** .

**Wireless** transceiver (50)

**Medium** access controller (60)
**Cryptography** circuit (70)
pp; 17 DwgNo 7/13
Title Terms: SECURE; **WIRELESS** ; LOCAL; AREA; NETWORK; DEVICE; CIRCUIT;
  CONNECT; MEDIUM; ACCESS; CONTROL; **WIRELESS** ; TRANSCEIVER; ADDRESS; DATA;
  COMMUNICATE
Derwent Class: T01; W01
International Patent Class (Main): H04K-001/00
File Segment: EPI
Manual Codes (EPI/S-X): T01-D01; T01-N02A2; W01-A05A; W01-A06B5A; W01-A06C4
  ; W01-A06E1

011591137     **Image available**
WPI Acc No: 1998-008266/199801
XRPX Acc No: N98-006563
  **Communication, e.g. telephony, data transfer across air interface between
  satellite and ground terminal - segmenting data into partitions,
  protecting data from corruption,** encrypting **, interleaving to randomise
  correlated errors, and multiplexing onto physical transmission media**
Patent Assignee: HUGHES ELECTRONICS (HUGA  )
Inventor: LABORDE E
Number of Countries: 001  Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---|---|---|---|---|---|---|---|
| US 5689568 | A | 19971118 | US 95496327 | A | 19950629 | 199801 | B |

Priority Applications (No Type Date): US 95496327 A 19950629
Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---|---|---|---|---|---|
| US 5689568 | A | | 18 | H04B-007/204 | |

Abstract (Basic): US 5689568 A
      The method of transferring communication data across an air
  interface comprises the steps of segmenting the communication data into
  96 uniform bit partitions, and protecting the data against corruption
  with forward error correction using a Golay code or with CRC checksum.
  The communication data is then **encrypted** for confidentiality using a
  bit-by-bit module-2 addition (XOR) and interleaved into a 12 by 16
  matrix to randomize errors.
      The communication data is next multiplexed onto a RF transmission
  media with control data into a number of superframes, each of which
  includes a number of frames having a multiplicity of time slots. The
  control data is located within a particular one of the time slots of
  each frame and the communication data is located in a different one of
  the time slots of each frame.
      USE - **Mobile** satellite system.
      ADVANTAGE - Optimizes for satellite propagation delays and hides
  physical transmission media from higher network layers.
      Dwg.9/13
Title Terms: COMMUNICATE; TELEPHONE; DATA; TRANSFER; AIR; INTERFACE;
  SATELLITE; GROUND; TERMINAL; SEGMENT; DATA; PARTITION; PROTECT; DATA;
  CORRUPT; INTERLEAVED; RANDOM; CORRELATE; ERROR; MULTIPLEX; PHYSICAL;
  TRANSMISSION; MEDIUM
Index Terms/Additional Words: **MAC** ; MEDIUM; ACCESS; CONTROL
Derwent Class: W01; W02

International Patent Class (Main): H04B-007/204
File Segment: EPI
Manual Codes (EPI/S-X): W01-B05A1A; W01-B05A1E; W02-C03B1A; W02-C03B1D;
  W02-C03C1A

| Set | Items | Description |
|-----|-------|-------------|
| S1 | 120858 | MAC OR (MEDIA? ? OR MEDIUM? ? OR MEDIASPECIFIC OR MEDIUMSP-ECIFIC)(1W)ACCESS??? ?(1W)(CONTROL??? ? OR CONTROLL??? ?) |
| S2 | 89534 | CRYPTO OR CRYPTOGRAPH? OR CRYPTOSYSTEM? OR ENCRYPT? OR ENC-IPHER? OR ENCYPHER? |
| S3 | 19753 | DECRYPT? OR UNENCRYPT? OR UNENCIPHER? OR UNENCYPHER? OR DE-CIPHER? OR DECYPHER? OR UNCRYPT? OR UNCYPHER? OR UNCIPHER? |
| S4 | 7538429 | SECRET? OR SECURE? ? OR SECURING OR SECURITY? |
| S5 | 1497884 | WIRELESS? OR WIRE()LESS OR MOBILE OR LAPTOP? ? OR LAP()TOP? ? OR TABLET |
| S6 | 292229 | PORTAB? OR NOTEBOOK OR NOTE()BOOK OR NOTEPAD OR THINKPAD OR (NOTE OR THINK)()PAD |
| S7 | 365482 | IPAQ OR PDD OR PDDS OR HPC OR HPCS OR WINCE OR VISOR OR PDA OR PDAS OR HANDSPRING OR PIM OR PIMS OR PALMPILOT OR PALMTOP OR PALM OR NEWTON OR BLACKBERRY |
| S8 | 8167 | (PEN OR STYLUS OR POCKET)(2W)(COMPUTER? ? OR DEVICE?) |
| S9 | 64190 | POCKETPC OR PERSONAL()INFORMATION()MANAGER? OR PERSONAL()(-DIGITAL OR DATA)()(ASSISTANT? ? OR ORGANI?ER? ?) OR CELLPHONE? OR MOBILEPHONE? OR SCREENPHONE? |
| S10 | 573868 | (RADIO OR SCREEN OR VIEW? OR SMART OR CELL OR CELLULAR OR -MOBILE OR WIRELESS? OR WIRE()LESS?? ? OR FLIP OR DIGITAL)(1W)-(TELEPHONE? OR PHONE? ? OR HANDSET? ? OR HAND()SET? ?) |
| S11 | 66733 | RADIOPAGER? OR PAGER? OR PAGING(1W)(DEVICE? OR UNIT? ? OR -APPARATUS? OR APP?? ? OR TERMINAL? OR APPLIANCE?) |
| S12 | 249702 | RADIOPHONE? OR VIEWPHONE? OR SMARTPHONE? OR RADIOTELEPHONE? |
| S13 | 44 | PERSONAL()DISPLAY?()(DEVICE? OR UNIT?? OR APPARATUS? OR AP-P?? ? OR TERMINAL? OR APPLIANCE? OR CLIENT? ? OR PC OR PCS OR COMPUTER? ?) |
| S14 | 1960460 | SELFCONTAINED OR SELF()CONTAINED OR MOBILE OR PORTABLE OR -WIRELESS? OR WIRE()LESS?? ? OR HANDHELD OR HAND()HELD OR POCK-ET OR IR OR INFRARED |
| S15 | 258140 | S14(2W)(CLIENT? ? OR PC OR PCS OR COMPUTER? ? OR DEVICE? OR UNIT? ? OR APPARATUS?? OR APP?? ? OR ORGANI?ER? OR TERMINAL? OR APPLIANCE?) |
| S16 | 13404 | (VIDEO OR PICTURE OR MESSAGE OR CAMERA)(1W)(TELEPHONE? OR -PHONE? ? OR HANDSET? ? OR HAND()SET? ?) |
| S17 | 70049 | PALMSIZE? OR PALMHELD OR HANDY? ? OR FLIPPHONE? OR VIDEOPH-ONE? OR PICTUREPHONE? |
| S18 | 554 | S1(25N)S2:S3 |
| S19 | 4000 | S1(25N)S5 |
| S20 | 140 | S18(S)S19 |
| S21 | 63 | S18(S)(S6:S13 OR S15:S17) |

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S22        161   S20:S21
S23        133   S22/2001:2004
S24         28   S22 NOT S23
S25         18   RD (unique items)
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 **25/3,K/2      (Item 2 from file: 610)**

00386286 20001016290B2062  (USE FORMAT 7 FOR FULLTEXT)
**Intersil    Announces    New    PRISM ARM  MAC  Platforms  For  Wireless  LAN**
**Applications;  Introduces   new  `Access  Point-on-a-chip' that reduces cost**
**through higher integration**
Business Wire
Monday, October 16, 2000  08:03 EDT
JOURNAL CODE:  BW  LANGUAGE:  ENGLISH  RECORD TYPE:  FULLTEXT
DOCUMENT TYPE:  NEWSWIRE
WORD COUNT: 1,063

...11a offerings, which
will include complete chipsets, firmware, software, and radio reference
designs.
This newest  **MAC**  chip is based on the popular ARM9 core and is optimized
for
use in Access Points, which are basically  **wireless**  hubs or gateways that
give
users a  **wireless**  link to the network and Internet. The new  **MAC**  can be
used in
802.11b applications and will support mandatory data rates for 802...
...first "Access Point-on-a-chip,"
implementing both the 802.11 MAC protocol and the  **MAC**  bridging function.
The
ISL3856 includes an onboard Ethernet interface that supports both 10 and
100
Mbps data rates. It also supports 128-bit  **encryption** , which offers the
highest
level of security for transmitted data.

Packaging, Availability and Pricing

The...


 **25/3,K/3      (Item 3 from file: 610)**

00321370 20000717199B3124  (USE FORMAT 7 FOR FULLTEXT)
**Buffalo Technology Launches AirStation; Affordable, Wi-Fi Compatible System**
**Brings  the  Mobility,  Speed  and  Security  of Wireless Networking to the**
**Masses**
Business Wire
Monday, July 17, 2000  09:05 EDT
JOURNAL CODE:  BW  LANGUAGE:  ENGLISH  RECORD TYPE:  FULLTEXT
DOCUMENT TYPE:  NEWSWIRE
WORD COUNT: 542

...throughout the AirStation network are protected. These features
include a highly secure DSSS modulation platform,  **MAC**  addressing that
"closes

the door" to unregistered access, and a WEP 40-bit **wireless** packet **encryption**
process that secures the data without sacrificing throughput speed.

    Standardized Networking Means Additional Flexibility

To...


  **25/3,K/4**    **(Item 4 from file: 610)**
DIALOG(R)File 610:Business Wire
(c) 2004 Business Wire. All rts. reserv.

00314211  20000705187B5802  (USE FORMAT 7 FOR FULLTEXT)
**3Com Introduces Industry's First Layer 3 Wireless LAN Security Solution**
Business Wire
Wednesday, July 5, 2000  15:26 EDT
JOURNAL CODE:  BW  LANGUAGE:  ENGLISH  RECORD TYPE:  FULLTEXT
DOCUMENT TYPE:  NEWSWIRE
WORD COUNT: 764

...LAN. The AirConnect solution currently features Wired
Equivalent Privacy (WEP) -- a standards-based Layer 2 **encryption** technique
that secures data transmitted between **wireless** access points and PCs --
as
well as access control using **wireless** network card ( **MAC** layer)
addresses.
While WEP is adequate for smaller **wireless** installations, it is not
sufficiently scaleable to meet the security needs of large corporate
networks...


  **25/3,K/5**    **(Item 5 from file: 610)**
DIALOG(R)File 610:Business Wire
(c) 2004 Business Wire. All rts. reserv.

00176138  20000120020B0290  (USE FORMAT 7 FOR FULLTEXT)
**No Wires Needed Acquires $5.5 Million in Venture Capital Funding**
Business Wire
Thursday, January 20, 2000  12:04 EST
JOURNAL CODE:  BW  LANGUAGE:  ENGLISH  RECORD TYPE:  FULLTEXT
DOCUMENT TYPE:  NEWSWIRE
WORD COUNT: 636

...bit security architecture
is the only solution in the industry that does not require bothersome
**encryption** key management. The Company also has existing **medium** **access**
**controller** ( 1MAC ) technology that enables the next generation of
**wireless** LAN products.

In 1999, No Wires Needed enjoyed a ten-fold increase in revenue over...


  **25/3,K/6**    **(Item 6 from file: 610)**
DIALOG(R)File 610:Business Wire
(c) 2004 Business Wire. All rts. reserv.

00161522  19991221355B1474  (USE FORMAT 7 FOR FULLTEXT)
**Wave Wireless Launches Industry's Fastest 11 MBPS Wireless Products**

Business Wire
Tuesday, December 21, 1999  00:00 EST
JOURNAL CODE:  BW  LANGUAGE:  ENGLISH  RECORD TYPE:  FULLTEXT
DOCUMENT TYPE:  NEWSWIRE
WORD COUNT: 699


...up to 25 miles, all SPEEDLAN bridge/routers provide
many features common to more expensive **wireless** bridges but at a much
lower cost. Unlike many products on the market today, advanced **MAC**
layer filtering, IP Routing, data **encryption** and SNMP management are
all included as standard features.

SPEEDLAN products are compatible with all...


  **25/3,K/9      (Item 2 from file: 20)**
DIALOG(R)File  20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

12879026  (USE FORMAT 7 OR 9 FOR FULLTEXT)
**3Com launches wireless LAN tools**
Fauziah Muhtar
NEW STRAITS TIMES (MALAYSIA)
September 18, 2000
JOURNAL CODE:  FNST  LANGUAGE:  English  RECORD TYPE:  FULLTEXT
WORD COUNT:  527

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...      AirConnect  solution  features  wired  equivalent privacy (WEP), a
standard-based  40-bit  Layer  2  data  **encryption**  technique  and access
control using  **wireless**  network card ( **MAC**  layer) addresses.
    For corporate customers who need to deliver  **wireless**  connectivity to
hundreds  or  thousands  of  network  users,  security  can be scaled up by
utilising...


  **25/3,K/10      (Item 3 from file: 20)**
DIALOG(R)File  20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

12394693  (USE FORMAT 7 OR 9 FOR FULLTEXT)
**3COM:  3Com  introduces  industry's  first  Layer  3  wireless LAN security
    solution;  3Com's  wireless  secure  tunneling solution delivers simple,
    seamless and scaleable wireless LAN security for commercial customers**
M2 PRESSWIRE
July 06, 2000
JOURNAL CODE:  WMPR  LANGUAGE:  English  RECORD TYPE:  FULLTEXT
WORD COUNT:  742

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...      LAN.  The  AirConnect solution currently features Wired Equivalent
Privacy  (WEP)  -  a  standards-based  Layer  2  **encryption**  technique that
secures data transmitted between  **wireless**  access points and PCs - as well
as access control using  **wireless**  network card ( **MAC**  layer) addresses.
    While  WEP is adequate for smaller  **wireless**  installations, it is not
sufficiently  scaleable  to  meet  the  security  needs  of  large  corporate
networks...

25/3,K/12      (Item 5 from file: 20)
DIALOG(R)File  20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

04867677  (USE FORMAT 7 OR 9 FOR FULLTEXT)
**New  Low  Cost,  High  Performance  Wireless  Bridge  From  Wave  Wireless
   Networking**
BUSINESS WIRE
April 06, 1999
JOURNAL CODE:  WBWE    LANGUAGE:  English    RECORD TYPE:   FULLTEXT
WORD COUNT:   551

      ... of  up to 25 miles, SPEEDLAN XE-2 provides many features common to
more  expensive  **wireless**  bridges  but at a much lower cost. Unlike many
products  on  the market today, advanced **MAC** layer filtering, IP Routing,
data  **encryption**  and SNMP  management  are  all  included  as  standard
features.


25/3,K/14      (Item 1 from file: 647)
DIALOG(R)File 647:CMP  Computer Fulltext
(c) 2004 CMP Media, LLC. All rts. reserv.

01205441    CMP ACCESSION NUMBER: NWC19991129S0008
**Lucent WaveLAN Turbo** PC Card Leads the Way in Price,   Features
Dave Molta
NETWORK COMPUTING, 1999, n 1024, PG22
PUBLICATION DATE: 991129
JOURNAL CODE: NWC      LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: Sneak Previews
WORD COUNT: 1052

...      configure specialized parameters using tabbed  dialog boxes. I
easily enabled and disabled power management and   **encryption** . On the
downside, Lucent makes it easy for users to change  the adapter's **MAC**  (
**Media  Access  Control** ) address, a feature I've never  quite understood,
given that many **wireless**  access points use **MAC** - address filtering for
security purposes.

 Lucent also provides client software that makes it relatively easy
...


25/3,K/16      (Item 3 from file: 647)
DIALOG(R)File 647:CMP  Computer Fulltext
(c) 2004 CMP Media, LLC. All rts. reserv.

01174330    CMP ACCESSION NUMBER: EET19981005S0066
**Protocol packs wireless voice, data**
Kevin J. Negus, Technical Co-chairman, HRFWG, Dennis Moy,  Marketing
   Chairman, HRFWG, Hewlett-Packard Co., Palo Alto,  Calif.
ELECTRONIC ENGINEERING TIMES, 1998, n 1029, PG76
PUBLICATION DATE: 981005
JOURNAL CODE: EET      LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: Signals Focus
WORD COUNT: 1025

...       CA access mechanisms. This is derived from the IEEE 802-11.1997, "IEEE Standard for **Wireless** LAN **Medium    Access    Control**  and Physical Layer Specification," that was approved in June 1997. The  **MAC**  protocol will accommodate up to six high-quality voice connections with 32- kbit/s ADPCM...

...24-bit network ID. In  addition, uses can ensure data security with three levels of   **encryption**  (none, medium, high).

 In operation, the  **MAC**  protocol uses a "superframe," which incorporates two contention-free periods (CFPs) and a contention  period... ?

| L Number | Hits | Search Text | DB | Time stamp |
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| 13 | 1900 | 380/28,44,247,255,30,29.ccls. | USPAT | 2004/08/18 10:37 |
|----|------|------|------|------|
| 14 | 2602 | 713/201,171,158,160,200.ccls. | USPAT | 2004/08/18 10:37 |
| 15 | 4045 | (380/28,44,247,255,30,29.ccls. or 713/201,171,158,160,200.ccls.) and @ad<20010101 | USPAT | 2004/08/18 10:42 |
| 16 | 5 | ((380/28,44,247,255,30,29.ccls. or 713/201,171,158,160,200.ccls.) and @ad<20010101) and secur$5 near4 wireless near4 (LAN or local adj area adj network) | USPAT | 2004/08/18 10:45 |
| 17 | 9 | ((380/28,44,247,255,30,29.ccls. or 713/201,171,158,160,200.ccls.) and @ad<20010101) and secur$5 with wireless with (LAN or local adj area adj network) | USPAT | 2004/08/18 10:46 |
| 18 | 0 | ((380/28,44,247,255,30,29.ccls. or 713/201,171,158,160,200.ccls.) and @ad<20010101) and optical$5 with crypt0$6 | USPAT | 2004/08/18 10:47 |
| 19 | 85 | ((380/28,44,247,255,30,29.ccls. or 713/201,171,158,160,200.ccls.) and @ad<20010101) and access adj (point or station) | USPAT | 2004/08/18 10:47 |
| 20 | 0 | (((380/28,44,247,255,30,29.ccls. or 713/201,171,158,160,200.ccls.) and @ad<20010101) and access adj (point or station)) and swlan | USPAT | 2004/08/18 10:48 |
| 21 | 0 | ((380/28,44,247,255,30,29.ccls. or 713/201,171,158,160,200.ccls.) and @ad<20010101) and swlan | USPAT | 2004/08/18 10:48 |
| 22 | 1 | ((380/28,44,247,255,30,29.ccls. or 713/201,171,158,160,200.ccls.) and @ad<20010101) and baseband adj processor | USPAT | 2004/08/18 10:49 |
| 23 | 1 | ((380/28,44,247,255,30,29.ccls. or 713/201,171,158,160,200.ccls.) and @ad<20010101) and (housing or contain$5) with wireless with transceiver | USPAT | 2004/08/18 10:50 |
| 24 | 11 | (housing or contain$5) with wireless with transceiver with (LAN or local adj area adj network) | USPAT | 2004/08/18 10:53 |
| 25 | 0 | (crypto$5 or cipher$6 or encod$6) with circuit with MAC with (wireless adj transceiver) | USPAT | 2004/08/18 10:54 |
| 26 | 0 | (crypto$5 or cipher$6 or encod$6) with MAC with (wireless adj transceiver) | USPAT | 2004/08/18 10:54 |
| 27 | 0 | (crypto$5 or cipher$6 or encod$6) with MAC with (wireless near4 transceiver) | USPAT | 2004/08/18 10:54 |
| 28 | 0 | crypt$6 with circuit with ((media adj access adj controller) or MAC) | USPAT | 2004/08/18 10:55 |
| 29 | 4237 | (LAN or local adj area adj network) with (wireless or mobile) | USPAT | 2004/08/18 10:56 |
| 30 | 101 | ((LAN or local adj area adj network) with (wireless or mobile)) and cryptography | USPAT | 2004/08/18 10:56 |
| 31 | 98 | (((LAN or local adj area adj network) with (wireless or mobile)) and cryptography) and (hous$4 or contain$5) | USPAT | 2004/08/18 10:57 |
| 32 | 92 | ((((LAN or local adj area adj network) with (wireless or mobile)) and cryptography) and (hous$4 or contain$5)) and @ad<20010101 | USPAT | 2004/08/18 10:57 |
| 33 | 2 | (((((LAN or local adj area adj network) with (wireless or mobile)) and cryptography) and (hous$4 or contain$5)) and @ad<20010101) and (unuseable or disable or interupt$5) with tamper$6 | USPAT | 2004/08/18 10:58 |

| 34 | 99 | (("5539824" | USPAT | 2004/08/18 11:15 |
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